



The Hebrew University of Jerusalem

Syllabus

NURSING CALCULATION - 91413

Last update 12-08-2019

HU Credits: 0

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Nursing - Ein Kerem

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Ein Karem

Course/Module Coordinator: Ms. Nikol Bekman

Ms. Mor Elimelech

Mr. Moshe Ben- Shaul

Coordinator Email: nikol@hadassah.org.il

Coordinator Office Hours: schedule appointment with course coordinator

Teaching Staff:

Ms. Nikol Bekman,
Ms. Yonit Akiva

Course/Module description:

The course is based on basic learning of nursing calculation. The course emphasises the importance of the right calculation the dose of the medicines and fluids. The students will require medical terminology, rules of reading medical instructions and medicine prescriptions.

Course/Module aims:

Presentation of the knowledge of medication and fluids calculation.

Learning outcomes - On successful completion of this module, students should be able to:

1. calculate the right dosage of the medications, rate and dilution of fluids.
2. present the knowledge in reading, writing and prescription of the correct dose of medication and fluids.
3. present the knowledge in the correct reporting of medications and fluids.

Attendance requirements(%):

100%

Teaching arrangement and method of instruction: Lectures, exercises, self learning.

Course/Module Content:

1. calculate the right dosage of the medications, rate and dilution of fluids.
2. present the knowledge in writing of the correct dose of medication and fluids.
3. units conversion (milli, micro, centi, deci, kilo, etc.)
4. proportion
5. frequency of medicine administration
6. units and abbr.
7. pills dose calculations
8. concentration of medications
9. Volume of fluids, infusion duration
10. fluids concentration changes

Required Reading:

- Berman, A., Snyder, S. & Frandsen, G. (2016). *Kozier & Erb's Fundamentals of Nursing: Concepts, process and practice* (10th ed.). London, UK; Pearson Prentice Hall. Chapter 35, pp.776-851.
- Hockenberry, M.J. & Wilson, D. (2010). *Wong's Nursing Care of Infants and Children* (9th ed.). St. Louis, MI; Elsevier-Mosby.

Additional Reading Material:

- מזרחי, י. (2007), מדריך לחישובי תרופות. מהדורה שלישית. אוניברסיטת תל אביב, דיונון.

Ansel, H.C., (2013). *Pharmaceutical calculations*. 14th ed. Baltimore: Lippincott, Williams & Wilkins.

<http://kabayim.com/maths.htm>

<http://www.dosagehelp.com>

Course/Module evaluation:

End of year written/oral examination 100 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 0 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

1. Obligatory attendance 100%
2. Pass grade is 100.
(students will be given 3 opportunities)
3. 100% of exersize is mandatory as a preliminary condition for final course examination