

## *The Hebrew University of Jerusalem*

### *Syllabus*

## **MEDICAL DECISION-MAKING.COPING WITH UNCERTAINTY - 94918**

*Last update 23-03-2017*

*HU Credits:* 2

*Degree/Cycle:* 2nd degree (Master)

*Responsible Department:* bio-medical sciences

*Academic year:* 0

*Semester:* 2nd Semester

*Teaching Languages:* Hebrew

*Campus:* Ein Karem

*Course/Module Coordinator:* Dr. Shiri Shkedi-Rafid

*Coordinator Email:* [shirish@hadassah.org.il](mailto:shirish@hadassah.org.il)

*Coordinator Office Hours:* Everyday- following email correspondance

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Teaching Staff:

Dr. Shiri Shkedi-Rafi  
Prof

Course/Module description:

The course aims to provide students with understanding of problems around decision making, especially with regards to health.

Course/Module aims:

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

Students will get to know formal models by which a 'rational' decision should be made, and their limits.

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:

Judgment and choice biased.  
Bounded Rationality.  
Prospect Theory.  
Framing.  
Uncertainty.  
Second opinion.

Required Reading:

1. Raiffa, H., "Decision Analysis", Addison-Wesley (R), 1968.
2. Chapman G.B. and Sonnenberg F.A., "Decision Making in Health Care", Cambridge Press, 2000.
3. Goutham Rao, "Rational Medical Decision Making, A Case-Based Approach". McGraw Hill, 2007.

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4. Kahneman D. and Tversky, A. *Prospect Theory: An Analysis of Decision under Risk*, *Econometrica*, vol 47, March 1979, pp. 263-291.
  5. Greene H.L., Johnson W.P., and Maricic M.J., *"Decision Making in Medicine"*, Mosby, 1993.
  6. Sox, HC, M. Blatt, Higgins, MC, Marton, KI, *"Medical Decision Making"*, Butterworth-Heinemann, 1988.
  7. Hunink, M. G. Myriam, Glasziou, Paul P., Siegel, Joanna E., Weeks, Jane C., Pliskin, Joseph S., Elstein, Arthur S. and Weinstein, Milton C. *"Decision Making in Health and Medicine: Integrating Evidence and Values"*. Cambridge University Press, 2001.
  8. Itzhak Gilboa. *"Making Better Decisions: Decision Theory in Practice"*. Wiley-Blackwell, 2011.
  9. Kreps, David M. *"Notes on the Theory of Choice"*. Boulder, Colo.: Westview Press, 1988.
  10. Itzhak Gilboa. *"Rational Choice"*. MIT Press, 2010.

Additional Reading Material:

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: