*The Hebrew University of Jerusalem*

*Syllabus*

*DATABASES - 67506*

 *Last update 20-09-2015*

*HU Credits:*  5

*Degree/Cycle:* 1st degree (Bachelor)

*Responsible Department:* computer sciences

*Academic year:* 0

*Semester:* 1st Semester

*Teaching Languages:* Hebrew

*Campus:* E. Safra

*Course/Module Coordinator:* Sara Cohen, Yehoshua Sagiv

 *Coordinator Email:* [db@cs.huji.ac.il](mailto:db@cs.huji.ac.il)

*Coordinator Office Hours:* Coordinate in advance

*Teaching Staff:*

*Prof Sara Cohen*
*Prof Yehoshua Sagiv*


*<u>Course/Module description:</u>*
  *Fundamentals of Database Management Systems.*


*<u>Course/Module aims:</u>*
  *See learning outcomes*


*<u>Learning outcomes - On successful completion of this module, students should be able to:</u>*
  *Understand database fundamentals*
*Design a database schema*
*Theoretically analyze the quality of a database schema*
*Formulate queries in both a formal and practical query language*
*Analyze query plans*
*Determine the safety of parallel transactions*


*<u>Attendance requirements(%):</u>*
  *0*


*Teaching arrangement and method of instruction: Lecture and exercise*


*<u>Course/Module Content:</u>*
  *Schema design*
*Data models*
*Query languages*
*Design theory*
*Query optimization Transaction management*


*<u>Required Reading:</u>*
 *None*


 *<u>Additional Reading Material:</u>*
  *NA*


  *<u>Course/Module evaluation:</u>*

*End of year written/oral examination 75 %*
*Presentation 0 %*
*Participation in Tutorials 0 %*
*Project work 0 %*
*Assignments 25 %*
*Reports 0 %*
*Research project 0 %*
*Quizzes 0 %*
*Other 0 %*


*Additional information:*
  *NA*