The Hebrew University of Jerusalem

Syllabus

Databases - 67506

Last update 11-08-2022

<u>HU Credits:</u> 5

<u>Degree/Cycle:</u> 1st degree (Bachelor)

<u>Responsible Department:</u> Computer Sciences

<u>Academic year:</u> 0

<u>Semester:</u> 2nd Semester

<u>Teaching Languages:</u> Hebrew

<u>Campus:</u> E. Safra

<u>Course/Module Coordinator:</u> Sara Cohen

<u>Coordinator Email:</u> sara@cs.huji.ac.il

<u>Coordinator Office Hours:</u> Coordinated in advance

<u>Teaching Staff:</u>

Prof Sara Cohen,
Ms. Rachel Behar

Course/Module description:
Fundamentals of Database Management Systems.

Course/Module aims:
See learning outcomes

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

Attendance requirements(%):

Teaching arrangement and method of instruction: * Lecture: asynchronous
* Tirgul: synchronous

Course/Module Content:
Schema design
Data models
Query languages
Design theory
Query optimization Transaction management
Recovery
NoSQL

Required Reading:
None

Additional Reading Material:
NA

Course/Module evaluation:
End of year written/oral examination 65 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 25 %
Reports 0 %
Research project 0 %
Quizzes 10 %
Other 0 %

Additional information:
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