The Hebrew University of Jerusalem

Syllabus

Databases - 67506

Last update 10-11-2021

HU Credits: 5

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Computer Sciences

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Sara Cohen

Coordinator Email: db@cs.huji.ac.il

Coordinator Office Hours: Coordinate in advance

Teaching Staff:

Prof Sara Cohen,
Mr. David Moshe,
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(%):
0

Teaching arrangement and method of instruction: * Lecture: asynchronous
* Tirgul: synchronous (if possible, there will be tirgul class on campus)

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

Required Reading:
None

Additional Reading Material:

NA

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

<u>*Additional information:*</u>
NA