



## סילבוס קורס

שם הקורס :	נושאים בכריית מידע Topics in Data Mining
מס' קורס :	202-1-4031
סוג קורס : נק"ז :	מיני פרויקט 2.0
מרצה הקורס	פרופ. אהוד גודס
דרישות קדם	תכנון אלגוריתמים 202-1-2041

### מטרת ונושא הקורס

Data mining has become an important research topic in both Databases and Artificial Intelligence areas. It is also important in the practical world since on the one hand organizations collect large quantities of data and on the other hand they need to derive intelligent decisions based on this data. Data mining can help in making such decisions by deriving Rules and Patterns from the data. Applications include Marketing, Machine diagnostics, Advertising and more.

The course includes several introductory lectures for the presentation of preliminary material and suggested projects, and then an independent work by student pairs on specific projects. Projects include implementation of one of the most popular data mining techniques such as: Association rules, Frequent sequences, Clustering, Decision trees, Naïve Bayes and other classifiers.

### Requirements:

- A lecture on the chosen technique – 30%
- A project implementation and report – 70%

### Recommended Books:

- 1) J. Han, M. Kamber, Data Mining, Concepts and Techniques, 2<sup>nd</sup> edition, Morgan Kaufman, 2006
- 2) X. Wu, V. Kumar, The top ten algorithms in Data mining, CRC press, 2009