האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

Productivity Management - 55742

Last update 07-09-2020

HU Credits: 3

Degree/Cycle: 2nd degree (Master)

Responsible Department: Business Administration

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Nicole Adler

Coordinator Email: msnic@huji.ac.il

Coordinator Office Hours: Tuesday 2:00-3:00

Teaching Staff:

Prof Nicole Adler

Course/Module description:

Benchmarking and productivity measurement aid organizations to improve products and processes both internally and with respect to their external environment. This course will discuss multiple management and economic approaches to productivity measurement as well as their applications to industry.

Course/Module aims:

The aim of this course is to study productivity management both theoretically and empirically. The course will cover two of the major methodologies to measure productivity, namely data envelopment analysis and stochastic frontier analysis. We will also study their applications in both the public and private sectors such as banking, pharmaceuticals, health, education and transportation.

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

- *Define productivity and how it can be managed*
- *Compare multiple methods of benchmarking*
- *Formulate and solve data envelopment analysis models*
- *Formulate and solve stochastic frontier analysis models*
- *Apply the models to real world industry applications*
- *Interpret and validate the benchmarking outcomes over time*

Attendance requirements(%):

Teaching arrangement and method of instruction: Lectures, class discussion, exercises and project

Course/Module Content:

Review of linear programming and econometrics, data envelopment analysis, stochastic frontier analysis, applications to the public and private sectors

Required Reading:

Benchmarking with DEA, SFA, and R., by Bogetoft, Peter, Otto, Lars

Published Springer, New York, 2010.

Additional Reading Material:

Course/Module evaluation:
End of year written/oral examination 0 %
Presentation 0 %
Participation in Tutorials 10 %
Project work 70 %
Assignments 20 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: