האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

INNOVATION AND INTELLECTUAL PROPERTY - 69708

Last update 03-10-2024

HU Credits: *3*

Degree/Cycle: *2nd degree (Master)*

Responsible Department: *Chemistry*

Academic year: *0*

Semester: *1st Semester*

Teaching Languages: *English and Hebrew*

Campus: *E. Safra*

Course/Module Coordinator: *Dr. Eyal Bressler*

Coordinator Email: *Eyal@Bressler.co.il*

Coordinator Office Hours: *Mondays 13:30, In Shprinzak 101, By appointment*

Teaching Staff:

Dr. Eyal Bressler

Course/Module description:

The course combines the study of the fundamentals of commercial laws and intellectual properties aspects. In particular, patents, innovation, R&D management and business development of technological projects.

Course/Module aims:

The course aims at a description of the world of commercial laws, in the aspects of R&D, contract laws and intellectual properties (IP) laws.
The course covers the main tools in the field of IP, in particular patents, copyrights, trademarks, contracts, etc. to allow efficient defense on R&D products and efficient commercialization of the products. During the course, we will also try to improve our innovation skills by guidance into an R&D preferred strategy.

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

1. Evaluated R&D and R&D commercialization from a legal point of view: (a) define milestones, schedule, HR, financials and needed collaborations in R&D. (b) identify weaknesses, both legal and commercial: non-disclosure agreements and non-compete clauses, collaborations with subcontractors and strategic partners, funding and employment agreements, etc.
2. To critically read and evaluate legal literature, including patents and commercial contracts.
3. Evaluate patents by their scope, coverage and strengths as compared to the existing knowledge, and to recommend on strategies to strengthen patents.
4. Develop patented technology from scratch, by application of legal techniques such as design around, additions of degrees of freedom and definition of technology from generation "n" to "n+1".

Attendance requirements(%):

80%

Teaching arrangement and method of instruction: Lecture.
Classes 4-5 & 12-14 include lecture and exercise.

Course/Module Content:

Lesson 1:
Syllabus.
Intro to Law, emphasis on Israeli Law compared to EU and US.

Lesson 2:
Intro: civil and criminal law
Contracts Law
Labor Laws
Property and IP Laws

Lesson 3:
Intro: registered IP (patents, trademarks, etc.) and non-registered IP (trade secrets, reputation, etc.).
Inventor and Owners.
Patents: historical background and overview.
Patents Law.

Lesson 4:
Legal aspects of managing startup companies and projects in biotech and medicine.

Lesson 5:
Patentability and freedom to operate.
Patent searching (DB, search engines, queries, IPC).
Case study: offline search for medical technology, and discussion.

Lesson 6:
Structure of Patents: description and claims.
Case study: guided reading of a patent.
Patent Workshop (1): writing.

Lesson 7:
Stages of patents: 1st year (provisional), PCT, national phase, patent examination and approval.
Patent registration strategy.

Lesson 8:
Project management: economics, law and strategy.
Patent Workshop (2): design around.

Lesson 9:
Innovation from the inventor's point of view.
FDA and CE regulation.
Patent Workshop (3): definition of "generations" in technologies, writing a patent for a new generation.

Lesson 10:
Contracted IP, GUI, trademarks and copyrights.
Patent evaluation: strength and scope.

Lesson 11:
Principles for patents in chemistry, biotechnology, medicine and agriculture.

Lesson 12:
Industrial design rights.
Trademarks.
Copyrights.

Lesson 13:
R&D Strategy: from a concept to a product in a patent point of view.
Economic aspects in IP.

Lesson 14:
Rehearsal.
Patent Workshop.

Required Reading:
Patents and contracts that will be delivered during the course.

Additional Reading Material:

Grading Scheme:
Essay / Project / Final Assignment / Home Exam / Referat 90 %
Attendance / Participation in Field Excursion 10 %

Additional information:
Open to undergraduate students (3rd year) with supervisor's approval.