

MBG 426 Bioentrepreneurship Syllabus

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Course Description

“I think the biggest innovations of the 21st century will be at the intersection of biology and technology. A new era is beginning, just like the digital one.” Steve Jobs

“Bioentrepreneurship is the integration of two different disciplines science (bio) and entrepreneurship. It is the smoothest sailing of innovation from academia to industry. Unlike other businesses, Biotech entrepreneurship is entirely academia-powered.” Nuclineers

This course introduces students to bioentrepreneurship. Topics include:

Entrepreneurship in Biotechnology and Life Sciences/ Business and Product Development Processes in Biotechnology/ Biotechnological Pharmaceuticals Market/ Innovation in life sciences/ Developing a business idea/ What is a business plan?/ Project management/ Intellectual Property/ Presentation and communication skills/ Finance, accounting, investment

Course Goals

1. To enable students to learn the theoretical and practical aspects of bioentrepreneurship
2. To enable students to develop a business idea and realize a business plan
3. To teach students project based group work
4. To teach students the ability to prepare and give oral presentations

Resources

Google Drive

https://drive.google.com/drive/folders/1UfhTZ_T0-1gjqYPJCZyUY2l-WYEDIQy4?usp=sharing

Adım Adım Biyogirişimcilik: Biyoteknoloji Girişimci ve Yatırımcılarına Yol Haritası Yazar : Sevgi Salman Ünver, Işıl Aksan Kurnaz, Oya Arı Uyar, Elif Damla Arısan, Selin Arslanhan, Ayfer Berkkam, Sertaç Doğanay, Ebru Elmas Gürses, E. Mümtaz Hacıpaşaoğlu, Başak Kandemir, Ramazan Karaduman, Gamze Sart, Melis Savaşan Söğüt, Murat Tortopoğlu, Erman Turan, Ayhan Üstün, Namık Yener Aba Yayınları

Biotechnology Entrepreneurship Starting, Managing, and Leading Biotech Companies Author: Craig Shimasaki

Handbook of Bioentrepreneurship Edited by Holger Patzelt and Thomas Brenner

<https://nuclineers.com/whats-bioentrepreneurship/>

<https://www.yesilscience.com/bio-entrepreneurship/>

<http://www.biopreneur.org/biotech-investment.htm>

<https://symbiosisonlinepublishing.com/family-business-management/family-business-management19.php>

Bio Entrepreneurship for Future Sustainable Small Business Perspective

<https://www.sciencedirect.com/science/article/pii/B978012404730300004X> What is Biotechnology Entrepreneurship?

<https://www.erasmus-entrepreneurs.eu/>

<https://bbb.rcb.res.in/bio-entrepreneurship/>

Course Activities:

This course will use active learning techniques ranging from working in small groups to writing minute papers to generating concept maps. Therefore, class participation is vital. Classes will include traditional lectures in addition to in – class presentations by students. Guest lecturers maybe invited for sharing their bioentrepreneurship experiences and/or for teaching specific topics such as intellectual property.

Course Assignments – Reflections:

3 most important things you have learned and any unclear points. Limit to 200 words. No word limit for the part of unclear points. Check spelling and grammar. Reflections hand-written on A4 paper.

Write your name at the top of the paper and course code.

Count the words and write down the number at the bottom right corner of the paper.

Bring to class next week. Late submissions -50% points.

Be specific:

Bad Example: “I learned about homeostasis.”

Good Example: “Homeostasis is maintenance of nearly constant conditions in the internal environment.”

Each group of 4 – 6 students will work as a team, prepare a business plan and present it.

Course Policies:

Grading:	Reflections	10%
	Exam 1	15 %
	Exam 2	15 %
	Business plan	30 % (Take home)
	Final exam	30 % (Pitching)

“İYTE Yüksek Öğretim Kurumları Öğrenci Disiplin Yönetmeliği” is to be followed.

Course Plan

Week	Topics
1	Bioentrepreneurship
2	Product sectors
3	Evaluating the Idea
4	Business Models
5	EXAM1
6	Intellectual Property
7	Marketing + Social Media
8	Angel Capital + Venture Capital
9	Pitching
10	EXAM2
11	Business plan
12	Business plan
13	Business plan
14	Business plan
15	Business plan