

Overview of Courses

MBI501 Introduction to Bio Innovation Management

This course will address issues in business management in relation to the biotech and healthcare industries. Students will study contents such as an overview of the biotech and healthcare industries, characteristics of and patterns in the biotech and healthcare industries, biotech and healthcare product development strategies and business management, and understanding of the biotech market and the healthcare market. In particular, students will study issues regarding the business management perspectives of biotech and healthcare corporations.

MBI502 Introduction to Bio Entrepreneurship

A characteristic of biotech start-up companies is that they take a long time to incubate. In this course, students will study knowledge necessary for starting and developing start-up companies in the biotech field and ways of securing potential partners and participating personnel. They will study issues such as an introduction to the global biotech industry, biotech product idea development, business plan preparation, protection and management of biotech intellectual property rights, biotech personnel management, regulations, and business management.

MBI508 IP Management in Biotechnology Fields

In this course, students will study processes for managing and using intellectual property rights in the biotech industry, with a focus on patent rights. The importance of intellectual property rights, especially patents, in the biotech industry cannot be stressed enough. In this course, students will study the processes of commercializing and monetizing intellectual property rights such as patents and trade secrets in the biotech industry. Specifically, the transfer and implementation of intellectual property rights, employee invention system and joint research, acquisition of intellectual property rights through mergers and acquisitions (M & A), and patent trolls will be addressed. In the process, students will study, both theoretically and practically, ways in which biotech companies efficiently manage and use intellectual property rights.

MBI511 Innovation Management and Strategy for Pharmaceutical Company

This course will address frameworks and methodologies for pharmaceutical companies and biotech businesses to establish innovation strategies and aim at enabling students accordingly to understand the economics of technological evolution, market dynamics, and innovation models. Students will produce knowledge and ideas

regarding the links among technological evolution, corporate strategies, and competitive environments and search for ways in which corporations can secure a competitive advantage on the basis of technological innovation.

MBI512 Healthcare and Medical Device Innovation and Innovation Management

In this course, students will study technological innovation and innovation management in the field of healthcare. With the development of science and technology in diverse fields, healthcare likewise has seen technological innovation. In this course, students will study the processes through which technological innovation is actually applied to the healthcare market and think about innovation management on the basis of an understanding of existing business models.

MBI513 Biotechnology Entrepreneurship and Startup Strategy

The goal of this course lies in enabling students to acquire overall knowledge of technology-based innovative business incubation, entrepreneurial spirit, analysis of start-up strategies, establishment of strategies, and implementation of strategies and to develop the capacity for concretely applying this to biotechnology entrepreneurship. In particular, students will broadly discuss the series of processes from the establishment of biotech business models, excavation and verification of customers, procurement of financial sources, and establishment and development of companies. This course aims at two-way learning based on discussions that integrate the practical duties of corporations' biotech innovation entrepreneurship and business strategy theories.

MBI514 Biotechnology Companies and Intellectual Property

In this course, students will study the processes of obtaining and creating intellectual property rights in the biotech industry, with a focus on patent rights. Researchers or inventors must be equipped with a deep understanding of the possibilities, systems, and business management for creating patents. In this course, students will learn actually to create patents by studying the importance of intellectual property rights in the biotech industry, with a focus on patents, and cases in both theory and practice.

MBI515 Organization Management and Practice in Biotech Companies

The goal of this course lies in enabling students to acquire overall theoretical knowledge of designing the organizational structures of and implementing the strategies of technology-based corporations and, based on this, to enhance their capacity for diagnosing and resolving the organizational issues of hi-tech corporations

as represented by biotech businesses. In lectures, students will compare and discuss from diverse angles traditional organizational structures that pursue enhanced efficiency and new organizational structures that pursue creativity and innovation, both in order to implement organizational strategies for securing biotech businesses' competitiveness. This course aims at two-way learning based on discussions that integrate the practical duties of biotech businesses and organizational theories.

MBI516 Global Bio Regulation and Innovation

This course will provide a survey of issues regarding important ethics, laws, and regulations in the biotech industry. In addition, it will discuss the ways in which current trends in ethics, legal issues, and regulations and requisites influence one another with respect to the biotech industry. It will review the significance of strategic, ethical, legal, and regulatory choices that provide biotech businesses, customers, and society with value.

MBI517 Biotechnology Investment

In this course, students will study the process in the biotech industry from the creation of new business ideas to the collection of return on investments from an entrepreneurial perspective. Because the biotech industry takes more time than do other industries to establish business models, to commercialize them, and to collect return on investments, detailed long-term plans and strategic approaches are needed. In this course, students preparing to establish biotech start-up companies will come to understand the latest situation in the global biotech industry and study diverse elements necessary to develop biotech-related companies. Finally, in this course, students will study technology value evaluation, technological cooperation, and corporate merger and acquisition (M & A) and listing procedures and strategies with respect to biotechnology.

MBI518 Bio Technology Foresight

Through an understanding of the latest trends in biotechnology, which is the basis of the biotech industry, this course will examine new biotech business models and incubation. Students will come to understand major technologies and technological trends in the biotech industry and learn to apply related topics such as business management, strategies, business models, and business incubation.

MBI600 Case Study in Bio Innovation Management

In this course, students will study the latest trends in biotech innovation management

and theories on strategic change and conduct analyses of cases related to the technology management of such new changes. Through this, they will come to understand changes in important technologies, corporations, and industries in relation to the new technology management demanded from the perspectives of corporations and public agencies and to acquire relevant practical knowledge.

MBI801 Special Topics in Bio Innovation Management

With the development of technologies in the quaternary industry, the biotech industry likewise has seen the rise of new industries and its structure has changed as a result. Accordingly, in this course, students will come to understand which new industries are emerging and to study trends in domestic and overseas policies supporting such industries.

MBI965 Individual Study on Master's

In this course, which is one of the graduation requirements for the master's program, students will conduct in-depth and creative research under the guidance of their academic advisors.

MBI998 Internship Program

The goal of this internship program lies in enabling students actually to participate in relevant duties at corporations and to learn on the job.

MBI999 International Internship

This course has been established to equip students with practical experience and international competitiveness and to promote their understanding of global issues.