

Graduate School of Innovation and Technology Management

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Introduction to the Graduate School

Innovation is one of the key powers of value creation. A number of companies, research institutes, and government agencies say that the future driving force for economic growth will come from innovation. In response, countries and organizations are making significant investment in research and development activities to identify new growth engine in the state-of-the-art areas of artificial intelligence, the Internet of Things, big data, self-driving cars, smart cities, and smart factories. Students of innovative management with broad and in-depth understanding of such innovation who can analyze it for adequate strategic directions and management will prove increasingly valuable leaders for the future society.

Technical progress at a remarkable speed also requires interdisciplinary thinking. Although new technology brings more functions and convenience, it tends to be complicated and difficult to learn. At the same time, users continuously demand more useful and economical technology. This trend calls for a conversion of diverse technologies and, in order to meet such demand, it is necessary to foster creative, endogenous, and interdisciplinary ways of thinking at the scenes of education. In other words, students are required to develop a broad understanding and in-depth thinking ability for a wide range of areas including business management and economics, in line with the convergent development of technology and business. In addition, they need to study convergent and innovative capacity of technology and business in order to make proper decisions to ensure successful growth.

For the era of the Fourth Industrial Revolution, theory and the field need to have dynamic interactions. Endogenous growth will become possible only by applying innovation to the actual field. Otherwise, we cannot systematically explain about it with our own language (method). In this sense, the ability to connect theory and the field is important in understanding the dynamic technology-centered society and develop business insight. Therefore, both inductive and deductive approaches and both diachronic and synchronic approaches are required, and KAIST ITM is ready to serve as a platform for such approaches.

The Graduate School of Innovation and Technology Management (ITM) offers world-class education necessary to train students of technology, engineering, humanities, and business management as leaders and decision-makers with a global mindset. To this end, students at I&TM are expected to learn theories and practical cases about changes in technology and innovation as well as various theories and practical knowledge about technology innovation including interactions between business environment and technology.

ITM consists of renowned faculty and outside experts who have both theoretical and practical experience. A number of courses are designed as team-based courses in which various professors participated in order to bring integrated viewpoints to various issues. In addition to classes, ITM faculty provides considerate mentorship and advice to assist students' career design. Another feature of ITM's program is experience-based learning and field internships, which will offer opportunities for not only case study, but also for exchange and practice with various schools and companies at home and abroad.

Lastly, ITM has already built a strong network with companies, government agencies, and other leading educational institutions and are expanding and strengthening the network in and outside Korea. With the network and abundant resources of KAIST, students at ITM will grow into key leaders of our society in the areas of innovation and technology management.