

Course Title	Special Seminar for Business Planning based on System-inspired Material Science
Registration Code	L200030001
Number of Credits	2
Years of Eligible Graduate Students	3-5
Semester	whole year
Period	out of time schedule Basically Tuesday 2nd (10:40 - 12:10) 4/11, 4/18, 4/25, 5/9, 5/15 (3rd on Mon.), 5/22 (3rd on Mon.), 5/30, 6/6, 6/14 (4th on Wed.), 6/20, 6/27, 7/5 (4th or 5th on Wed., inform later), 7/12 (off-campus, afternoon on Wed.), 7/19 (off-campus, afternoon on Wed.), 7/26 (5th of Wed.) and 8/1 (Details on the off-campus activity will be announced at a later date.)
Room	B4-East-K-102
Instructors	Atsushi Ashida, Toshihiko Sakai
Office hours	Ashida: 9:30-11:00 on Tue., Room A6-323 (need appointment in advance)
Goals of the course	We carry out dialogues about technology fields to contribute to future innovation in material science, its surrounding fields and related business development. This is carried out through examples in which ideas resulting from the way of thinking about the creation of intangible things drastically affect the development of material science, as well as examples in which system-inspired material science has contributed to the success of the business model.
Textbooks	
Homework (Preparing for the classwork)	
Course outline	Following an introduction to science-based companies, guest lecturers will share examples of ideas developed through kotozukuri (value creation) significantly impacting the development of materials science, as well as examples of successful business models involving systems thinking in materials science. Before each lecture, students will research the company that the speaker works for in order to engage in a dialogue with the speaker on topics such as new industries surrounding materials science and the actions that they should take in order to contribute to innovation. The class will blend elements of lecture and seminar formats.
Class schedule	1st Seminar overview (Ashida and Sakai)
	2nd Introduction to scientific business (Sakai)
	3rd Introduction to scientific business (Sakai)
	4th Case Study 1 on kotozukuri (value creation) and innovation (Kawakita)
	5th Case Study 2-1 on kotozukuri (value creation) and innovation (external lecturer)
	6th Case Study 2-2 on kotozukuri (value creation) and innovation (external lecturer)
	7th Case Study 3 on kotozukuri (value creation) and innovation (external)
	8th Case Study 4 on kotozukuri (value creation) and innovation (external)
	9th Case Study 5 on kotozukuri (value creation) and innovation (external)
	10th Case Study 6 on kotozukuri (value creation) and innovation (external)
	11th Case Study 7 on kotozukuri (value creation) and innovation (external)
	12th Case Study 8 on kotozukuri (value creation) and innovation (external)
	13th Case Study 1 on a venture company (external lecturer, off-campus)
	14th Case Study on innovation (external lecturer, off-campus)
	15th Case Study 2 on a venture company (external lecturer)
	16th Conclusion (Sakai, Ashida)
Evaluation	A rubric will be used to grade students based on feedback from TEC professors and external lecturers. Students will also be graded on reports.