Liberal Arts and General Education (G) (大学院教養・共通科目群)

・Career Development Courses (G)(大学院キャリア科目)

Career Development Courses

Program Outline

Doctoral Students are required to enroll into either the Academic Leader Program (ALP) or the Productive Leader Program (PLP) based on their individual career plans. (Please refer to IIDP web site. http://www.iidp.titech.ac.jp/)

Each program will require the acquisition of Graduate Attributes (GA) shown below.

Through career subjects established by the IIDP, or equivalent subjects specified by your department, students are required to earn 4 credits during the period until the doctoral degree acquisition.

NOTE:

The number of credits for graduation requirements may vary depending upon each department; therefore, please always check with your department's study guide.

Academic Leader Program(ALP)

Graduate Attributes required of students enrolled in Academic Leader Program (ALP)

A0D: You will be able to precisely draw your own career plan and self-train yourself to acquire the skills required for attaining your goals in the academic field

A1D: You will be able to ascertain the true nature of phenomena, master the secret of learning, and lead the pioneering of a new academic discipline or research area

A2D: You will be able to understand the position of academia in society, and adequately explain the academic progress to members of society, which is the stakeholder

A3D: You will be able to nurture junior students in educational institutions, inculcating in them an interest in academics and enabling them to later join in the pioneering of new academic disciplines or research areas

Academic Leader Program (ALP) applicable subjects

There may be multiple applicable GAs, but only 1 GA can go toward 1 subject.

Course No.	Subject	Credit	Faculty	Term	GA			
					A0D	A1D	A2D	A3D
23016	Doctoral Career Design I F-E	1-0-0	Yoshinori Hatori Dan Ricinschi Hazel B. Gonzales Daniel Berrar	OctMar.	\bigcirc			
23019	*Technical Writing F1	0-1-0	Hazel B. Gonzales Dan Ricinschi	OctNov.		0		
23020	*Technical Writing F2	0-1-0	Dan Ricinschi Hazel B. Gonzales	DecJan.		\bigcirc		
23022	*Critical Thinking F	1-0-0	Dan Ricinschi Hazel B. Gonzales	Oct Nov.			\bigcirc	\bigcirc
23023	Developing CareerAdaptability for GlobalCompetitiveness F	1-0-0	Hazel B. Gonzales Dan Ricinschi	Oct Nov.			0	0

Tables of Course Subjects

X Course available only for doctoral students

Productive Leader Program(PLP)

Graduate Attributes required of students enrolled in Productive Leader Program (PLP)

P0D: You will be able to precisely draw your own career plan and self-train yourself to acquire the skills required for attaining your goals in the industry, etc.

P1D: You will be able to precisely grasp the needs of society and detect its problems, and lead the future developments in science and technology

P2D: While leading teams consisting of members with varied specialities and value systems, you will be able to create products and enterprises that bring forth new values in the society

P3D: Through the project, you will be able to nurture junior students, enabling them to later join in the development of next generation society and industry

Productive Leader Program (PLP) applicable subjects

There may be multiple applicable GAs, but only 1 GA can go toward 1 subject.

Course No.	Subject	Credit	Faculty	Term	GA			
					P0D	P1D	P2D	P3D
23016	Doctoral Career Design I F-E	1-0-0	Yoshinori Hatori Dan Ricinschi Hazel B. Gonzales Daniel Berrar	OctMar.	\bigcirc			
23019	%Technical Writing F1	0-1-0	Hazel B. Gonzales Dan Ricinschi	OctNov.		0		
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23023	Developing CareerAdaptability for GlobalCompetitiveness F	1-0-0	Hazel B. Gonzales Dan Ricinschi	OctDec.			0	\bigcirc

Tables of Course Subjects

* Course available only for doctoral students

[Career development courses]

23016 Doctoral Career Design I F-E

I F-E: Fall semester 1-0-0 Yoshinori Hatori, Hazel B. Gonzales, Dan Ricinschi, Daniel Berrar,

/Outline of Lecture/

As a training course of the Academic Leaders Program (ALP) primarily targeted at D1 and D2 students, these lectures will cover career design strategies for future scientists and professionals working either in academia or industry. The prospects of an international career will be discussed based on some particularities of the work and research environments in different countries, and suggestions will be given about practical ways of starting on this career path.

/Purpose of Lecture/

The goal of this intensive lecture series is to provide the students an overview of new trends in science and technology and the related career perspectives, specifically in a global environment. Students will learn how to explore prospective career paths, how to develop professional networking skills, and how to cope with challenges in the workplace. With a focus on international career development, the lectures will provide useful tips for students planning to pursue research at an overseas institute as well as at R&D departments of private companies and in academia.

23019 Technical Writing F1*

Fall semester 0-1-0 Hazel B. Gonzales, Dan Ricinschi

•This is an intensive course on the fundamentals of scientific writing English. The goal of this course is to equip the students with the elementary skills needed for effective scientific writing. This class covers the essential aspects of how to write and publish a paper in an Academic journal.

23020 Technical Writing F2*

Fall semester 0-1-0 Dan Ricinschi, Hazel B. Gonzales

•This is an intensive course on the fundamentals of scientific writing English. The goal of this course is to equip the students with the elementary skills needed for effective scientific writing. This class covers the essential aspects of how to write and publish a paper in an Academic journal.

*You can take either Technical Writing F1 or Technical Writing F2 only.

23022 Critical Thinking F

Fall semester 1-0-0 Hazel B. Gonzales, Dan Ricinschi

•The course aims to demonstrate the importance of thinking critically about the various issues in science and technology that students are likely to encounter during their future careers. Students will learn to ask the right questions when confronted with their peers' ideas and opinions, as well as to quickly find ambiguities, lack of evidence, weaknesses in argumentation, contradictions, and omissions in both written and oral communications. The course includes a discussion of the various approaches to the scientific inquiry, such as induction, deduction, and abduction, and logical fallacies. In addition to regular lectures, the course will have an important interactive component where students will practice constructive criticism on written/oral communications chosen by the instructor. The ultimate goal of this course will be to help students to improve the logical soundness of their own argumentations.

23023 Developing Career Adaptability for Global Competitiveness F

Fall semester 1-0-0 Hazel B. Gonzales, Dan Ricinschi

•In this course, students are introduced to the typical and exceptional challenges arising in a workplace out of their comfort zone and they are consequently trained to cope with these circumstances. Several in-class activities will be done to urge students to demonstrate and enhance their adaptive skills. These activities are expected to foster new strategies and ideas that will help students be prepared to face the global environment. Lectures on global competitiveness will be done to further expose students to the increasing workplace diversity and the inevitability of the heightening international competition. At the end of the course, students

are expected to have broadened their work perspective and have developed their work attitude as they plan their respective career paths.

[Important]

Following the education reform in April 2016, in principle, new courses equivalent to those currently available will be offered.

Regarding the newly offered courses, please check the cross-reference table that will be available on Tokyo Tech's website at a later date.