Career development courses

【Master's Student】

Master's students are required to acquire the necessary credits in the career development courses with fulfilling all the Graduate Attributes (GA) shown in Table MA-1 by the end of your master's degree program.   In addition to the career development courses each course offers for acquisition of GA, career development courses are offered which are in the 400s and 500s as shown in Table 1. Take appropriate courses according to the completion requirements of your master's degree program.   As to the courses with more than one GA, the number of GA stipulated for the courses is considered to be acquired regardless of the credits received for the courses.

Table MA-1 Master's Degree Program Graduate Attributes

C0M	Able to delineate one's career plan clearly and recognize the skills necessary to materialize the plan, also considering its relations to the society
C1M	Able to utilize its own expertise to the development of academia and technology, and work with others with different expertise to contribute to problem-solving

Table 1: Master's Degree Program courses (400 and 500 levels)

Course category	Course number		Course title	Credits	GA*	Comments
400 level	LAC.M401		Master's Career Design	1-0-0	C0M	
	LAC.M402		Master's Career Plan	1-0-0	C0M	
	LAC.M403	★	Strategies for Balancing Career, Personality and Lifestyle (Master Course)	1-0-0	C0M	
	LAC.M413		Master's Career Design Practice	0-1-0	C0M	
	LAC.M443	★	Master's Developing Career Adaptability for Global Competitiveness	1-0-0	C1M	
	LAC.M448	★	Master's Critical Thinking	1-0-0	C1M	
	LAC.M451	★	Master's Technical Discussion	0-1-0	C1M	
	LAC.M457	★	Master's Technical Writing	0-1-0	C1M	
500 level	LAC.M511		Smart Business Career Development	1-0-0	C1M	

LAC.M521		Ethics of Scientists (Master Course)	1-0-0	C0M, C1M	
LAC.M525		Ethics of Engineers (Master Course)	1-0-0	C0M, C1M	
LAC.M531		Pre ALP Practice	1-0-0	C1M	
LAC.M537		Social Contributions through Research	1-0-0	C1M	
LAC.M562	★	Master's Scientific Communication	1-0-0	C1M	

Note：

- **★：offered in English in principle**

＊**GA: Graduate Attributes**

• The character preceding the three digits in the course number denotes the course's subdiscipline (i.e., "D" represents the subdiscipline code in the course number ABC.D400.R): M (Master's degree program)

【Graduate Attributes (GA) Table】

C0M：Able to delineate one's career plan clearly and recognize the skills necessary to materialize the plan, also considering its relations to the society	C1M：Able to utilize its own expertise to the development of academia and technology, and work with others with different expertise to contribute to problem-solving
・Master's Career Design ・Master's Career Plan ・Strategies for Balancing Career, Personality and Lifestyle ・Master's Career Design Practice ・Ethics of Scientists ・Ethics of Engineers	・Master's Developing Career Adaptability for Global Competitiveness ・Master's Critical Thinking ・Master's Technical Discussion ・Master's Technical Writing ・Smart Business Career Development ・Ethics of Scientists ・Ethics of Engineers ・Pre ALP Practice ・Social Contributions through Research ・Master's Scientific Communication

【Doctoral Student】

Doctoral degree program students are required to fulfill the following conditions;

・Register in either the Academic Leader Program (ALP) or the Productive Leader Program (PLP) based on their individual career plans.　IIDP will ask you the registration of the programs 6 months after your doctoral degree program started.

・Each program will require the acquisition of Graduate Attributes (GA) shown below.　Through career development courses established by the IIDP, or equivalent courses specified by your department, the students are required to earn 4 credits which should meet the 4 Graduate Attributes (GAs).

・As to the courses with more than one GA, the number of GA stipulated for the courses is considered to be acquired regardless of the credits received for the courses.

(※1) Students enrolled in the educational program for leading graduate schools may be offered courses recognized as equivalent to Career Development Courses besides those listed here. For details about available courses or completion requirements, please refer to the Study Guide of the Academy that offers the relevant program. In addition, when making a change in registration from the curriculum to ALP or PLP, GAs attained as career skills in the educational program can be carried over to ALP or PLP.

Table A-1 Academic Leader Program (ALP) Graduate Attributes

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

Table A-2 Productive Leader Program (PLP) Graduate Attributes

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 specialties 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

(※1) Updated in October, 2018

Table 2: Doctoral Degree Program courses (600 level)

Course category	Course number			Course title	Credits	GA*	Comments
	LAC.A621			ALP Introduction	1-0-0	A1D	
	LAC.A631			ALP Practice I (Teaching Practice)	0.5-0-0.5	A2D, A3D	Offered in English as needed. The application document for this course is necessary.
	LAC.A635			ALP Practice II (Overseas Training)	0-0-1	A2D, A3D	Offered in English as needed. The application document for this course is necessary.
	LAC.A641			ALP Advanced Practice I	0-0-1	A1D, A2D, A3D	
	LAC.A642			ALP Advanced Practice II	0-0-1	A1D, A2D, A3D	
600 level	LAC.A643			ALP Advanced Practice III	0-0-1	A1D, A2D, A3D	
	LAC.A644			ALP Advanced Practice IV	0-0-1	A1D, A2D, A3D	
	LAC.C601			Doctoral Career Design	1-0-0	A0D, P0D	
	LAC.C602			Doctoral Career Plan	1-0-0	A0D, P0D	
	LAC.C603		★	Strategies for Balancing Career, Personality and Lifestyle	1-0-0	A0D, P0D	
	LAC.C643		★	Developing Career Adaptability for Global Competitiveness	1-0-0	A2D, A3D, P2D, P3D	
	LAC.C648		★	Critical Thinking	1-0-0	A2D, A3D, P2D,	

					P3D	
LAC.C651		★	Technical Discussion	0-1-0	A2D, A3D, P2D, P3D	
LAC.C657		★	Technical Writing	0-1-0	A1D, P1D	
LAC.C662		★	Scientific Communication	1-0-0	A2D, A3D, P2D, P3D	
LAC.P622			PLP Introduction	1-0-0	P1D	
LAC.P632			PLP Practice	0-0-1	P2D, P3D	Offered in English as needed
LAC.P642			PLP Advanced Practice	0-1-0	P1D, P2D, P3D	
LAC.P652		★	R&D Activities of Global companies I	1-0-0	P1D	
LAC.P654		★	R&D Activities of Global companies II	1-0-0	P1D	
LAC.P657			Technology Management Practice	1-0-0	P1D	
LAC.P661			Recurrent Program Advanced Practice 1	0-0-1	P0D, P1D, P2D, P3D	Offered in English as needed
LAC.P662			Recurrent Program Advanced Practice 2	0-0-2	P0D, P1D, P2D, P3D	Offered in English as needed
LAC.P663			Recurrent Program Advanced Practice 3	0-0-3	P0D, P1D, P2D, P3D	Offered in English as needed
LAC.P664			Recurrent Program Advanced Practice 4	0-0-4	P0D, P1D,	Offered in English as needed

						P2D, P3D	

Note：

- **★：offered in English in principle**

＊**GA: Graduate Attributes**

- The character preceding the three digits in the course number denotes the course's subdiscipline (i.e., "D" represents the subdiscipline code in the course number ABC.D400.R): A (Academic Leader Program), P (Productive Leader Program), C (Common for both programs)

【Graduate Attributes (GA) Table】

アカデミックリーダー教育院（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
・Doctoral Career Design ・Doctoral Career Plan ・Strategies for Balancing Career, Personality and Lifestyle	・ALP Introduction ・ALP Advanced Practice I ・ALP Advanced Practice II ・ALP Advanced Practice III ・ALP Advanced Practice IV ・Technical Writing	・ALP Practice I(Teaching Practice) ・ALP Practice II(Overseas Training) ・ALP Advanced Practice I ・ALP Advanced Practice II ・ALP Advanced Practice III ・ALP Advanced Practice IV ・Developing Career Adaptability for Global Competitiveness ・Critical Thinking ・Technical Discussion ・Scientific Communication	・ALP Practice I(Teaching Practice) ・ALP Practice II(Overseas Training) ・ALP Advanced Practice I ・ALP Advanced Practice II ・ALP Advanced Practice III ・ALP Advanced Practice IV ・Developing Career Adaptability for Global Competitiveness ・Critical Thinking ・Technical Discussion ・Scientific Communication

プロダクティブリーダー教育院（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 specialties 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
・Doctoral Career Design ・Doctoral Career Plan ・Strategies for Balancing Career, Personality and Lifestyle ・Recurrent Program Advanced Practice 1 ・Recurrent Program Advanced Practice 2 ・Recurrent Program Advanced Practice 3 ・Recurrent Program Advanced Practice 4	・Technical Writing ・PLP Introduction ・PLP Advanced Practice ・R&D Activities of Global companies I ・R&D Activities of Global companies II ・Technology Management Practice ・Recurrent Program Advanced Practice 1 ・Recurrent Program Advanced Practice 2 ・Recurrent Program Advanced Practice 3 ・Recurrent Program Advanced Practice 4	・Developing Career Adaptability for Global Competitiveness ・Critical Thinking ・Technical Discussion ・Scientific Communication ・PLP Practice ・PLP Advanced Practice ・Recurrent Program Advanced Practice 1 ・Recurrent Program Advanced Practice 2 ・Recurrent Program Advanced Practice 3 ・Recurrent Program Advanced Practice 4	・Developing Career Adaptability for Global Competitiveness ・Critical Thinking ・Technical Discussion ・Scientific Communication ・PLP Practice ・PLP Advanced Practice ・Recurrent Program Advanced Practice 1 ・Recurrent Program Advanced Practice 2 ・Recurrent Program Advanced Practice 3 ・Recurrent Program Advanced Practice 4