

Master's Course																	
Subject Type	Category	Subject Number	[Diploma Policy]														
			DP1	DP2	DP3	DP4	DP5	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	
General Subjects			[Curriculum Policy] CP1. Introductory subjects for learning the general science and technology trends necessary for studying advanced science and technology and holistic comprehension CP2. Subjects with balanced content for students from diverse academic backgrounds to provide basic knowledge of advanced science and technology and to develop comprehensive understanding. CP3. Subjects to provide highly specialized knowledge concerning advanced science and technology CP4. PBL subjects to develop the ability to grasp issues comprehensively, to discover and solve problems in cooperation with others, and to foster a sense of challenge CP5. Subjects to improve the presentation and communication skills necessary to be active professionally in society. CP6. Through cooperation with industry and government, subjects to foster the ability to understand science and technology issues and their roles within industrial and societal activities CP7. Subjects to improve the communication skills required of researchers and engineers, English communication skills for Japanese students and Japanese communication skills for international students CP8. Subjects to enhance the ethical thinking and the perspectives of societal trends required for researchers and engineers The learning outcomes of each of these subjects shall be evaluated based on the results of written tests, reports, exercises, experiments, practical work, etc. CP9. Importance is placed on active engagement in research tasks that contribute to advanced science and technology academically or in application to write a master's thesis, a special extended essay, or an extended essay through seminars and research guidance. Through this, the acquisition of research or technology development skills are achieved and the spirit of challenge, well-roundedness, interdisciplinary understanding, and ethics that will contribute to leading the next generation of advanced science and technology are fostered. Learning outcomes are evaluated by two or more supervising professors.														
		1001	技術と倫理 Technology and Professional Ethics			○	○									○	
		1002	科学哲学 Philosophy of Science			○	○									○	
		1003	科学コミュニケーション Science Communication			○	○									○	
		1004	知的財産権 Intellectual Property Right			○	○						○				
		1010	知的財産権演習 Exercise for Intellectual Property Rights			○	○						○				
		1010	プロフェッショナルコミュニケーションⅠ Professional Communication I			○								○			
		1011	プロフェッショナルコミュニケーションⅡ Professional Communication II			○								○			
		1012	アカデミックディスカッション Academic Discussion			○								○			
		1013	リサーチプレゼンテーション Research Presentation			○								○			
		1014	リサーチライティング Research Writing			○								○			
		1015	アドバンスドリサーチライティング Advanced Research Writing			○								○			
		1016	日本文化 Japanese Culture			○								○			
		1035	インテンシブ日本語Ⅰ Intensive Japanese Course I			○								○			
		1036	インテンシブ日本語Ⅱ Intensive Japanese Course II			○								○			
		1018	日本語Ⅱ Japanese Course II			○								○			
		1023	アカデミックボランティアⅠ Academic Volunteer I		○	○							○				
		1024	アカデミックボランティアⅡ Academic Volunteer II		○	○							○				
	Introduction Subjects	2001	情報理工学序論 Introduction to Information Science and Engineering	○						○							
		2009	先端デジタル技術序論 Introduction to Advanced Digital Technologies	○						○							
		2003	バイオサイエンス序論 Introduction to Biological Science	○						○							
		2005	物質理工学序論 Introduction to Materials Science and Engineering	○						○							
		Basic Subjects	3031	情報科学基礎Ⅰ Fundamentals of Information Science I	○												
3032			情報科学基礎Ⅱ Fundamentals of Information Science II	○							○						
3002			プログラミング演習 Programming Course	○							○						
3012			分子生物学 Molecular Biology	○							○						
3013			細胞膜と物質輸送 Cell Membranes and Transport	○							○						
3014			細胞の情報伝達 Cell Signaling	○							○						
3015			微生物科学 Microbial Science	○							○						
3016			植物科学 Plant Science	○							○						
3017			バイオメディカルサイエンス Biomedical Science	○							○						
3018			細胞骨格と細胞周期 Cytoskeleton and Cell Cycle	○							○						
3019			遺伝学と幹細胞 Genetics and Stem Cell Biology	○							○						
3020			遺伝子クローニングとDNA解析 Gene Cloning and DNA Analysis	○							○						
3033			先端バイオサイエンス概論 Introduction to NAIST Bioscience	○							○						
3046			遺伝子・ゲノム概論 Introduction to Genes and Genomes	○							○						
3021			物質科学解析 Mathematical Analyses for Materials Science	○							○						
3022			量子力学 Quantum Mechanics	○							○						
3023	物質物理学 Core Quantum Mechanics II		○							○							
3024	物質化学 Core Physical Chemistry I		○							○							





Doctoral course											
Subject Type	Subject Name	[Diploma Policy]					[Curriculum Policy]				
		DP1	DP2	DP3	DP4	DP5	CP1	CP2	CP3	CP4	CP5
		[Diploma Policy] DP1. To acquire <b>sophisticated expertise and skills</b> to understand the broad theory and structures of advanced science and technology fields (information science and engineering, biological science, material science and engineering, and their interdisciplinary fields) from a holistic and comprehensive point of view to challenge solving difficult problems. DP2. To acquire the skills and the spirit of challenge to actively and independently promote <b>the identification and resolution of problems</b> in a specific field, as well as to <b>lead new interdisciplinary research and development</b> in other fields. DP3. To acquire <b>sophisticated global communication skills and a holistic perspective</b> , and the ability <b>to exercise international leadership</b> in a global environment in advanced science and technology field research and development. DP4. To acquire <b>high ethical and scientific perspectives</b> in research and development in advanced science and technology fields. DP5. <b>The doctoral thesis written</b> produces particularly excellent research results that contribute to advanced science and technology academically or in application.					[Curriculum Policy] CP1. Subjects teaching <b>state-of-the-art expertise</b> in information science, biological science, materials science, and their interdisciplinary fields. CP2. Subjects to foster the ability <b>to actively envision relationships with society</b> , including <b>broad perspectives</b> based on interdisciplinary knowledge, <b>comprehensive understanding</b> , and career planning. CP3. Subjects to <b>develop the ability to actively and independently plan and execute research projects, to solve problems, and pursue the boundaries of science and technology</b> . CP4. Subjects focused on the acquisition of <b>the presentation and communication skills necessary for successful international activity</b> . The learning outcomes of each of these subjects shall be evaluated based on the results of written tests, reports, exercises, experiments, practical work, etc. CP5. Importance is placed on active engagement in sophisticated research tasks that contribute to advanced science and technology academically or in application to write a doctoral thesis through <b>seminars and research guidance</b> . Through this, the acquisition of the ability to actively and independently identify and resolve problems in a specific field are achieved and the spirit of challenge, well-roundedness, interdisciplinary understanding, and ethicality that will globally contribute to leading next generation advanced science and technology are fostered. Learning outcomes are evaluated by three or more supervising professors				
Subjects for research skills	英語上級B Advanced English B			○						○	
	英語上級C Advanced English C			○						○	
	英語上級D Advanced English D			○						○	
	英語上級E Advanced English E			○						○	
	インテンシブ日本語Ⅰ Intensive Japanese Course I			○						○	
	インテンシブ日本語Ⅱ Intensive Japanese Course II			○						○	
	日本語Ⅱ Japanese Course II			○						○	
	海外英語研修Ⅰ Overseas English Training I			○						○	
	海外英語研修Ⅱ Overseas English Training II			○						○	
	海外英語研修Ⅲ Overseas English Training III			○						○	
	国際研修Ⅰ International Training I			○						○	
	国際研修Ⅱ International Training II		○	○					○	○	
	国際研修Ⅲ International Training III		○	○					○	○	
	研究留学Ⅰ Study Abroad I		○	○					○	○	
	研究留学Ⅱ Study Abroad II		○	○					○	○	
	研究留学Ⅲ Study Abroad III		○	○					○	○	
	国際ワークショップ企画演習 Seminar for International Workshop Planning		○	○					○	○	
	プロジェクトマネジメントⅠ Project Management I	○	○					○	○		
	プロジェクトマネジメントⅡ Project Management II	○	○					○	○		
	プロジェクトマネジメントⅢ Project Management III	○	○					○	○		
	情報理工学特別講義 Special Lectures in Information Science and Engineering	○						○			
	バイオサイエンス特別講義 Special Lectures in Biological Science	○						○			
	物質理工学特別講義 Special Lectures in Materials Science and Engineering	○						○			
	データサイエンス特別講義 Special Lectures in Data Science	○						○			
	デジタルグリーンイノベーション特別講義 Special Lectures in Digital Green-innovation	○						○			
	イノベーションマネジメントA Innovation Management A				○				○		
イノベーションマネジメントB Innovation Management B			○					○			
キャリアマネジメント1 Career Management 1			○					○			
キャリアマネジメント2 Career Management 2			○					○			
Subjects for independent research abilities	先進ゼミナール Research Status Hearing	○	○				○	○		○	○
	博士論文研究Ⅰ Doctoral Research I	○	○				○	○		○	○
	博士論文研究Ⅱ Doctoral Research II	○	○				○	○		○	○
	博士論文研究Ⅲ Doctoral Research III	○	○				○	○		○	○
	博士論文研究Ⅳ Doctoral Research IV	○	○				○	○		○	○
	博士論文研究Ⅴ Doctoral Research V	○	○				○	○		○	○