

Policy Correlation Diagram – Graduate School of Advanced Science and Technology –

<p>Diploma Policy Preamble/ Footnote</p>	<p>The Division of Advanced Science and Technology in the Graduate School of Advanced Science and Technology at JAIST sets its educational goal in cultivating innovative talents in advanced science and technology who can take active roles as leaders in society or industrial world with broad vision required in a sustainable society and communication ability in addition to specialization in advanced science and technology. In the master's program, a master's degree in Knowledge Science, Information Science or Materials Science based on student's main academic fields will be conferred to those who have acquired the abilities listed below and have passed either the Master Thesis Examination and the Final Examination, or the Ph.D. Qualifying Examination after having obtained all the required credits. In the doctoral program, a doctoral degree in Knowledge Science, Information Science or Materials Science based on student's main academic fields will be conferred to those who have acquired the abilities listed below in addition to the abilities listed above, produced excellent research achievements in the major field and have passed the Doctoral Dissertation Examination and the Final Examination after having obtained all the required credits.</p> <p>Main Academic Fields Knowledge Science: An academic field that integrates knowledge of design methodology, business management, system science and others related to issues of human, organizations or society, proposes attractive solutions to the issues, and contemplate how to materialize the solutions Information Science: An academic field that aims to solve problems for humanity and society, pioneer unexplored fields, and produce new innovative basic theories, basic technologies and applications with regard to information processing and communication that supports the information society Materials Science: An academic field that produce new and innovative materials by aiming at solving problem for humanity and society and pioneering unexplored fields on the basis of physics, chemistry, biology and their relevant science and technology</p>					
<p>Diploma Policy (Master's Program)</p>	<p>Ability to understand fundamental concepts of advanced science and technology in the major field</p>	<p>Ability to identify and solve problems by the application of specialized knowledge</p>	<p>Ability to carry out academically and socially valuable research on their own initiative</p>	<p>Ability to challenge a different field from the major or an unexplored field</p>	<p>Ability to comprehend diverse cultures and ability to communicate</p>	<p>High ethical perspectives as a researcher or an engineer</p>
<p>Diploma Policy (Doctoral Program)</p>	<p>Ability to extensively understand theories and systems of advanced science and technology in the major field</p>		<p>Ability to design a new and original research and produce world-class research achievements</p>	<p>Ability to hold a comprehensive view and take leadership in the field of advanced science and technology</p>		
<p>Curriculum Policy Preamble/ Footnote</p>	<p>The Division of Advanced Science and Technology in the Graduate School of Advanced Science and Technology at JAIST carries out lectures and laboratory education corresponding to main academic fields for each degree as shown below, in order to acquire the abilities that are specified in the Diploma Policy.</p> <p>Main Academic Fields Knowledge Science: An academic field that integrates knowledge of design methodology, business management, system science and others related to issues of human, organizations or society, proposes attractive solutions to the issues, and contemplate how to materialize the solutions Information Science: An academic field that aims to solve problems for humanity and society, pioneer unexplored fields, and produce new innovative basic theories, basic technologies and applications with regard to information processing and communication that supports the information society Materials Science: An academic field that produce new and innovative materials by aiming at solving problem for humanity and society and pioneering unexplored fields on the basis of physics, chemistry, biology and their relevant science and technology</p>					
<p>Curriculum Policy (Lectures)</p>	<p>Offered hierarchically and systematically groups of lectures consisting of courses for students from a different major and beginner students (Introductory Courses), basic courses of graduate school (Basic Courses), high-level specialized courses (Technical Courses) and developmental and advanced specialized courses (Intermediate and Advanced Courses). Conducted in either English or Japanese language.</p>	<p>Set the target of each lecture at acquiring abilities to understand and utilize serialized knowledge. Introduce active learning methods positively. Carry out strict grading based mainly on examinations.</p>			<p>Educate students to obtain an ability to conduct group research by utilizing basis and methodologies of information science and knowledge science, as well as an ability to aim at improving themselves. Recommend that student take liberal arts courses and courses of the other fields actively.</p>	
<p>Curriculum Policy (Laboratory Education)</p>	<p>Makes students deepen their understanding of basic concepts in their major field through laboratory education. Carries out high-quality laboratory education by taking account of each student's talent and study targets and supervising the level of their goal attainment.</p>	<p>Makes students obtain abilities of problem identification and problem solving with application of their specialized knowledge through methods including individual guidance, small-class education, and collaborative learning. Provides research guidance and evaluation from different viewpoints by assigning supervisors from different fields.</p>	<p>Makes students acquire necessary abilities for a series of research process from making a research plan based on review of relevant researches, executing the research by using acquired knowledge and skills, examining research outcomes, to presenting the outcomes.</p>	<p>By assigning a research topic of the adjacent or relevant field related to the specialized field or an internship, makes students acquire abilities to carry out research in different field and environment. Provides opportunities to receive guidance from the viewpoints of different field or industry. In the doctoral program, aims at enhancing abilities of leadership through the opportunities to work as a teaching assistant or a research assistant.</p>	<p>In the laboratory environment abound with diversity in goals, backgrounds, nationalities and the like, aims at improving understanding of diverse cultures and communication ability.</p>	<p>Through research activities, makes students comprehend their social responsibility and nurture high sense of ethics as a researcher or an engineer.</p>
<p>Conducts evaluation of the level of achievements based on the laboratory education stated above.</p>						
<p>Admission Policy (Master's Program)</p>	<p>JAIST looks for students who possess a strong will and a clear sense of purpose in pursuing study and research in the fields of advanced science and technology based on Knowledge Science, Information Science and Materials Science, who are capable of expressing their own ideas logically, and who have an attitude to make efforts to produce mutual understanding through discussions. JAIST, as a university of postgraduate education without an undergraduate program, accepts applicants widely from bachelor's degree holders, international students and working professionals irrespective of their undergraduate major and background. Applicants are expected to have solid understanding of what they have studied in their undergraduate major field and to be prepared for study and research at JAIST.</p> <p>In the light of the image of students stated above, JAIST screens applicants by evaluating their basic knowledge, ability, and aspiration necessary for carrying out study and research at JAIST based on a short essay on their research topic after admission, an interview (including an oral presentation and an oral examination questioning about basic knowledge and their undergraduate major field), and a transcript of their undergraduate level school.</p> <p>In the evaluation, JAIST emphasizes the result of the interview and uses submitted documents as reference. As for the Admission on Recommendation, applicants are exempted from the interview and screened based on submitted documents including the short essay and the recommendations.</p>					
<p>Admission Policy (Doctoral Program)</p>	<p>JAIST looks for students who possess a strong will and a clear sense of purpose in pursuing research through social contribution in the fields of advanced science and technology based on Knowledge Science, Information Science and Materials Science, who are capable of expressing their own ideas logically, and who have an attitude to make efforts to produce mutual understanding through discussions. JAIST, as a university of postgraduate education without an undergraduate program, accepts applicants widely from graduate degree holders, international students and working professionals irrespective of undergraduate and graduate majors and background. Applicants are expected to have acquired specialized knowledge and ability in Knowledge Science, Information Science, Materials Science and other relevant fields and to possess a research achievement equivalent to the one for a master's degree.</p> <p>In the light of the image of students stated above, JAIST screens applicants by evaluating their research achievements so far and their specialized knowledge, ability, and aspiration necessary for carrying out study and research at JAIST based on the submitted documents regarding their research outline before admission and their research proposal after the admission and an interview (including an oral presentation and an oral examination).</p> <p>In the evaluation, JAIST emphasizes the result of the interview and uses submitted documents as reference. As for the Admission on Recommendation, applicants are exempted from the interview and screened based on submitted documents including the research outline and the research proposal.</p>					