Osaka University International Certificate Program Details (Continuing)

26/3/2025

			20/3/2023						
Course Name	Advanced Industrial Biotechnlogy								
Course Affiliation	International Center for Biotechnology								
Course Manager	Prof. Fujiyama Kazuhito, International Center for Biotechnology								
Cooperative Schools	Graduate School of Science, Graduate School of Pharmaceutical Sciences, Graduate School of Engineering, Graduate School of Engineering Science, Graduate School of Information Science and Technology, Institute for International Initiatives								
Eligibility	• Graduate students of ASEAN Campus Partner Universities • Working people who have received at least a bachelor's degree from the countries where ASEAN campuses are located.								
Requirements for completion	6 to 8 credits	Capacity	30						
Course Objective	To gain wide fundamental knowledge about biotechnology which involves multi-disciplinary fields such as microbiology, genome engineering, biochemistry, molecular biology, cell engineering, analytical chemistry, biophysical chemistry, stem cell engineering and biochemical engineering To nurture the basic research ability for creating innovative technology to change society To become knowledgeable about intellectual properties and isses in biodiversity to benefit society To develop human resources who aim to establish the sustainable society with the ability of producing added value								
Learning Goals	To understand the relationship between manufacturing science and technology, and biotechnology To understand the importance of basic science and core technology which support biotechnology To understand the issues in exploitation of bioresources using biotechnology To understand the biotechnology and industrial technology innovation To understang the relationship between biotechnology and modern society To understang the relationship between biotechnology and SDGs								
Components	[Required Subjects] Common Subject (Fall, Winter Term): "OUICP-Fundamentals of Industrial Biotechnology" Common Subject (Spring, Summer Term): "SDGs and Asia-Pacific Region II" Practical Study Abroad (PSA) Subjects: "Laboratory Study I, II, III" [Elective Subjects] "OUICP-Advanced Biotechnology" Subjects offered by each graduated school are listed below.								
Requirements	To have knowledge of biochemistry at the undergraduate level. Students will be selected after screening. We welcome students who are interested in biotechnology.								
Prior knowledge	It is recommended that the students have a bacheler level of knowledge regarding biochemistry.								
Special Note	All the courses in this program will be	given in English.							
	105411.0	Partner Universities							

*ASEAN Campus Partner Universities https://www.osaka-u.ac.jp/en/international/action/asean

Components

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Course Numbering 対象 Code	Course Name	Credits		Course Term	Study	Course Affiliation	Notes			
	ood se Name	Commo	PSA	Elect ive	oourse reilli	Hours	Jourse All Illacton	NOLES		
88B008	common	OUICP-Fundamentals of Industrial Biotechnology	1			winter	15	Institute for International Initiatives		
88A085/88A022	common	SDGs and Asia-Pacific Region Z / II	1			spring to summer	15	Institute for International Initiatives		
88A201/88A204	common	(PSA) Laboratory study I		1*		spring to winter	45	Institute for International Initiatives		
88A202/88A205	common	(PSA) Laboratory study II		1*		spring to winter	45	Institute for International Initiatives		
88A203/88A206	common	(PSA) Laboratory study Ⅲ		1*		spring to winter	45	Institute for International Initiatives		
88B009	common	OUICP-Advanced Biotechnology			1	spring to summer	15	Institute for International Initiatives		
281025	common	ESP Frontier Chemistry A			1	winter	15	Graduate School of Engineering	Only for short-term exchange students	
281026	common	ESP Frontier Chemistry B			1	spring to summer	15	Graduate School of Engineering	Only for short-term exchange students	
88A508	common	International Exchange Special Lecture 2(Bio-Inspired Chemical Engineering 2)			1	winter	15	Institute for International Initiatives	Provided by Graduate School of Engineering Science	