

## Osaka University International Certificate Program Details

02/19/2025

Course Name	Frontiers in Radiation Therapy and Medical Imaging Technology		
Course Affiliation	Graduate School of Medicine		
Course Manager	Associate Professor, Kazumasa Minami, Division of Health Science		
Cooperative Schools	Institute for International Initiatives		
Eligibility	<ul style="list-style-type: none"> <li>Graduate students of ASEAN Campus Partner Universities. (Thailand, Indonesia, Vietnam, Brunei, Darussalam and Malaysia)</li> <li>Working people who have received at least a bachelor's degree from the countries where ASEAN campuses are located.</li> </ul>		
Requirements for completion	more than six credits and less than eight credits	Capacity	5
Course Objective	Even in ASEAN countries, the population of elderly people is getting increased and approaching into aging society. Thus, the aim of this course is to develop humanresources who take initiative in leadership for the research/development in the radiation therapy and medical imaging technology, in order to deal with the aging society.		
Learning Goals	To understand multidisciplinary basic science across physics, chemistry and biology for radiation therapy. To get prospectives for potential research seeds, catching knowledge that covers the current research topics. To get knowledge of the radiotherapy facilities for further research/development.		
Components	<b>【Required Subjects】</b> Common Subject (Winter, Spring Term): "Advanced radiation treatment and nuclear medicine" and "Advanced medical imaging", Practical Study Abroad (PSA) Subjects: Select two or three courses in "Laboratory Study I, II, III" <b>【Elective Subjects】</b> "Radiation physics/chemistry, and radiation detection", "Radiobiological effects and radiation treatment", and "Internship I, II, III"		
Requirements	Post-graduate students in science/engineering, or medicine/life-science fields for radiation treatment. Working people in radiation treatment.		
Prior knowledge			
Special Note	All the courses in this program will be given in English. The candidates will be selected through evaluation.		

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

### Components

Course Numbering Code	Category	Course Name	Credits			Course Term	Study Hours	Course Affiliation	Notes
			Common	PSA	Elective				
255676	common	Advanced radiation treatment and nuclear medicine	1			winter to spring	15	Graduate school of medicine (master course)	
88A022	common	SDGs and Asia Pacific Region II	1			spring to summer	15	Institute for International Initiatives	
88A201	common	(PSA) Laboratory study I (SS)		1*		spring to summer	45	Institute for International Initiatives	
88A202	common	(PSA) Laboratory study II (SS)		1*		spring to summer	45	Institute for International Initiatives	
88A203	common	(PSA) Laboratory study III (SS)		1*		spring to summer	45	Institute for International Initiatives	
255677	common	Advanced medical imaging			1	winter to spring	15	Graduate school of medicine (master course)	
255678	common	Radiation physics/chemistry, and radiation detection			1	spring to summer	15	Graduate school of medicine (master course)	
255679	common	Radiobiological effects and radiation treatment			1	spring to summer	15	Graduate school of medicine (master course)	
255680	common	Internship I			0.5	spring to summer	22.5	Graduate school of medicine (master course)	On Site only
255681	common	Internship II			0.5	spring to summer	22.5	Graduate school of medicine (master course)	On Site only
255682	common	Internship III			0.5	spring to summer	22.5	Graduate school of medicine (master course)	On Site only

\*Participants have to choose two or three PSA courses