

# Ph.D. Program in Empowerment Informatics

“Empowerment Informatics” as a new branch of Informatics that supplements and extends human functions and enables technology to work in harmony with people.

Academic status according to the Kakenhi (Grant-in-Aid for Scientific Research) classification

**Category:** Integrated Disciplines

**Field:** Informatics

**Specification:** Human Informatics

A field of study based on Human Informatics that integrates arts, medical science, and business science (Tsukuba-style Human Informatics)

**SIGMA**  
(The School of Integrative and Global Majors)

**Operated by a university-wide education scheme**

Degree-based educational system that is not divided by conventional disciplines

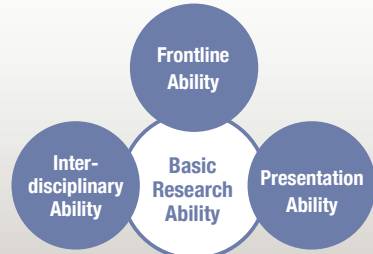
## Cultivating global leaders

- Provision of visible added values
- Strength to compete in ‘away games’ such as international contests
- Competitive environment realized by selecting only 12 students

**Specific career paths available to graduates of EMP**  
Industries related to medical, welfare, nursing, advanced automobiles, smart consumer electronics, creative industry, and so on.

Cultivating the ability to design systems that empower people

**Doctor of Human Informatics will be granted**



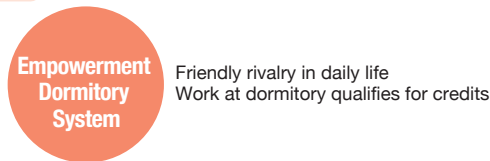
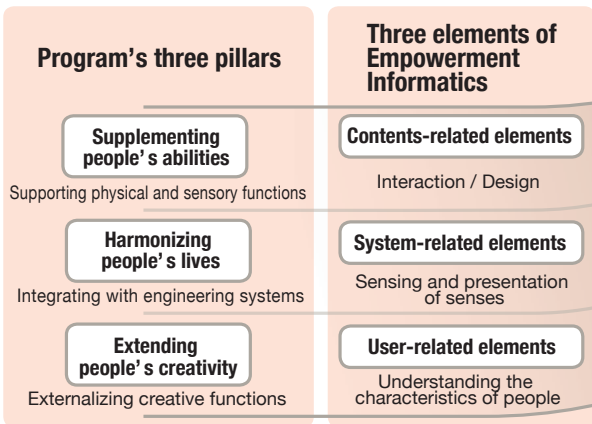
Thesis Examination

Intertwining and fusing of the three pillars



**Assessment framework to guarantee the quality of education**

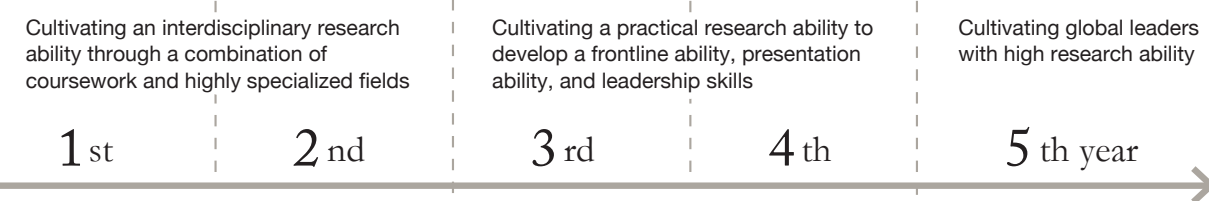
<b>A</b>	<b>Qualifying Examination</b>	Academic skills level equivalent to master's degree level
<b>B</b>	<b>The 1st Assessment of Student Achievement</b>	Cultivating profound expertise and an interdisciplinary research ability
<b>C</b>	<b>The 2nd Assessment of Student Achievement</b>	Executive and problem-solving abilities at frontline are examined
<b>D</b>	<b>Final Assessment of Student Achievement</b>	Frontline ability, Interdisciplinary ability and Presentation ability as a global leader in addition to High-level research ability



**Compulsory Advanced Subjects (Practicum and Practical Classes)**

<b>1</b>	<b>Empowerment Informatics Project-based Research</b>	Students carry out project-based research through teamwork
<b>2</b>	<b>Empowerment Informatics Advanced Tutorial Study</b>	Seminar based on student-led debates
<b>3</b>	<b>Research Design Exercise</b>	<b>Presentation Ability</b> Multidisciplinary integrated research plan proposal and presentation guidance
<b>4</b>	<b>Practical Training in Engineering Residence</b>	<b>Frontline Ability</b> Students reside corporations at home and abroad, and conduct research and development as project leaders
<b>5</b>	<b>Collaboratory Exercise</b>	<b>Interdisciplinary Ability</b> Multidisciplinary teams create a business model that industrializes research

**Interdisciplinary Coursework**  
Spanning Highly Specialized Fields (Business, Arts, Medical Science)



**Empowerment Global Alliance**  
(UCLA, Univ. of Edinburgh, Delft Univ., etc.)

- Overseas training camp-style examination
- Overseas Practical Training in Engineering Residence & Collaboratory Exercise
- Employment at global enterprises

**Education and Training System provided by Multidisciplinary Research Advisory Team**

Each student is assigned a lead instructor from one of the three educational area pillars (“Supplement”, “Harmony” and “Extension”) and two sub-instructors, one from each other area. Additionally, each student has an advisory team comprised of instructors from arts, business science, medical science, and industry.

**Demands of the society**

- It is essential to cultivate personnel who can create “systems to empower people”
- Important issues raised in the fourth Science and Technology Basic Plan launched by Ministry of Education, Culture, Sports, Science and Technology