

**Graduate School of Pharmaceutical Sciences,  
Tokushima Bunri University (English version)**

It is a 4 year doctoral graduate school for students who have graduated from 6 year pharmaceutical course or have equivalent academic ability. It was started in April of 2012. It is a joint graduate school of Tokushima campus and Kagawa campus. We also welcome enrollment and fall enrollment for non-traditional students.

**Degree**

Doctor of Philosophy in Pharmaceutical Sciences

**Principle and Mission**

In this graduate school, we promote unique pharmaceutical education and research where medical pharmaceutical field and basic pharmaceutical field merge in the research field based on clinical assignment. From this, students will master the high level and practical specialized knowledge and technique that are proven by natural science, and devote themselves in training of problem presentation and problem solving skill that include creativity and judgment, and we will train our student to acquire questioning mind, ambition, and uniqueness as a researcher as well as having a wide range of viewpoint and high level of ethics as a medical personnel.

**Admission policy**

We nurture pharmacists and researchers who will be in the center of medical and development field. We nurture pharmacists who have inquiring mind and ambition, uniqueness as a researcher, and those who acquired a wide range of viewpoint and high level of ethics to take the leading role as a specialist of medication in the medical scene, as well as to be a researcher who can take the central role in developing medications. We nurture people to be trusted and

respected by citizens, dedicate themselves to the true improvement of human health, and make contribution to the development of local communities.

### **Eligibility requirement for the examination**

- (1) Students who have graduated or are planned to graduate from 6 year pharmaceutical course by the applicable date of enrollment.
- (2) Students who have master's degree or are planned to acquire the same degree by the applicable date of enrollment
- (3) Students who are recognized to have the same or higher ability than indicated in (1) by this school
- (4) Students who desire medical and pharmaceutical and do not apply to (1), they must be applicable to (2) or (3) and have a qualification as a pharmacist.

### **Curriculum policy (4 specialized fields)**

- ① Medical and pharmaceutical field: We train people to be able to use their high level of knowledge using medicine in the medical field.
- ② Health and senior healthcare field: We train people to be able to lead health science to prepare for the aging society.
- ③ Pharmaceutical development and advanced medical field: We train people to be able to take a central role in developing new pharmaceuticals
- ④ Medical analysis and medical safety field: We train people to be able to analyze the adverse effect information and improve the safety of medical treatment.

### **Curriculum detail**

During the first or second year, students will take 9 required subjects from the specialized elective subjects.

During the first year, students will start the literature search, introduction and presentation, and start taking “pharmaceutical practice” that mainly consist of theses composition and “specialized study in pharmaceutical” that are setup in the lab. In March, student will write their

progress of research in report and submit it to their instructor.

During the second year, students will take the specialized elective subject if necessary and continue with their “pharmaceutical practice” and “specialized study in pharmaceutical” and present their research progress in symposiums and academic meetings.

Students will continue their lab activity in the third year similar to the second year. At the end of March, they will report their research progress to their instructor.

During the fourth year, students will start preparing the thesis presentation for their research and submit their research on scholarly journal that has a screening process around July. With the condition that their thesis is published in more than one scholarly journal, they will be evaluated for their doctorate in December. If they pass the internal screening, they will start composing the doctoral dissertation and submit it in February. They will have the main screening (final exam) when they present their research in March.

### **Medical care providing facility and cooperation system**

We have inter-school cooperation with Kochi Medical School Hospital. We plan to construct a system to provide innovative drug development education (development of new medication) and drug nurturing education (development of new effect and usage method) and promote collaborated medical research. Also, we are building Tokushima Bunri University Practice Support Center right next to Tokushima Red Cross Hospital. We are planning on cooperating with Tokushima Red Cross Hospital and co-studying the trend of most advanced medication and treatment.

Furthermore, we have constructed the local cooperation type comprehensive medical education research consortium for nurturing high level medical personnel along with Kagawa University Faculty of Medicine University Hospital and Kagawa Prefectural College of Health Science.

### **System of thesis defense and completion requirement**

Requirement for completion is a total of 34 units; 16 mandatory units including 4 units of “pharmaceutical practice” and 12 units of “specialized pharmaceutical research”, and more than 18 units (9 subjects) of specialized elective subjects. Furthermore, students must pass the screening for doctoral dissertation and final examination as well. The base report for the doctoral dissertation must be printed in at least one scholarly journal in English with screening system (with peer reviews). The structure of doctoral dissertation evaluation committee:(1) Chief examiner: 1 professor of graduate school who has the closest field of the dissertation (this

exclude the main instructor) (2)Vise chief examiner: 2 professors, associate professors or lecturers of graduate school who are in related field of the dissertation. The screening for doctoral dissertation includes internal screening, evaluation reading and main screening of the thesis. In the main screening, the oral presentation of the thesis will be done. It is to evaluate the English ability and academic ability in the doctoral dissertation evaluation.

### **Diplomacy (The image of the people who we nurture)**

Due to the advancement of medical technology, there are various areas where students who complete this doctoral course to be successful in the medical field. They are expected to be active specialists who are successful in research and development of medications in pharmaceutical companies and related companies by utilizing their high level of knowledge and problem solving abilities which are the results of the education system of our unique lab research. As examples, they can be a pharmacist with high level and specialized skills who can take the leading role, a pharmacist who can take the leading role in the local medical care, treatment coordinator, university staff of medical field, research and development and development of new innovative medication for pharmaceutical companies and research and educator of food, and nutrition.

### **Method of enrollment screening**

English Examination (Select from biology or chemistry)

Short essay (non-traditional students)

Interview (Questions from graduate school staffs after presenting the research detail)

### **Enrollment limit**

6 students