

## **Diploma Policy of the Graduate School of Science**

The purpose of education and research at the Kobe University Graduate School of Science is to contribute towards the development of society's intellectual infrastructure through a deepened awareness of nature based on the exploration of various scientific fields that are the foundations of the natural sciences. The Graduate School also contributes towards this goal by developing human resources with problem-solving skills informed by their specialized scientific knowledge and research capabilities in the field.

To achieve these objectives, we award degrees in accordance with the policies indicated below.

### **Degrees: Master of Science, Doctor of Science, Doctor of Philosophy**

#### **• Department of Mathematics**

The Department of Mathematics of the Graduate School of Science awards degrees as follows, based on the Kobe University Diploma Policy:

- Students shall be enrolled in the Master's Program for at least two years or the Doctoral Program for at least three years, during which time they shall obtain the required credits for completion, in addition to passing the degree thesis examination and final examinations based upon the necessary research guidance.
- However, those with outstanding performance can graduate in a shortened enrollment period.
- In addition to those specified in the Kobe University Diploma Policy, graduate students of the Department of Mathematics shall have acquired the following abilities by the time they graduate:

#### **Master's Program**

- Sufficient English ability to communicate research results.
- Creative research skills based on an interdisciplinary perspective.
- Deep knowledge of advanced mathematics with the ability to understand correlations among them.
- Basic skills related to mathematics research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern mathematics.
- Basic skills for deeply exploring mathematics.

#### **Doctoral Program**

For the Doctor of Science qualification, emphasis is placed on the acquisition of a particularly high level of expertise in the field of specialization and the ability to utilize it in research in that

field. For the Doctor of Philosophy qualification, emphasis is placed on the acquisition of a broad academic perspective and wide-ranging knowledge with the ability to apply these to research in the field of specialization.

- Creative research skills based on an interdisciplinary perspective.
- Advanced skills related to mathematics research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern mathematics and apply this to new ideas for research topics.
- The ability to independently conduct mathematics research.

#### **• Department of Physics**

The Department of Physics of the Graduate School of Science awards degrees as follows, based on the Kobe University Diploma Policy.

- Students shall be enrolled in the Master's Program for at least two years or the Doctoral Program for at least three years, during which time they shall obtain the required credits for completion, in addition to passing the degree thesis examination and final examinations based upon the necessary research guidance.
- However, those with outstanding performance can graduate in a shortened enrollment period.
- In addition to those specified in the Kobe University Diploma Policy, Department of Physics graduate students shall have acquired the following abilities by the time they graduate:

#### **Master's Program**

- Sufficient English ability to communicate research results.
- Creative research skills based on an interdisciplinary perspective.
- The ability to understand the structure and functions of materials based on fundamental principles.
- Basic skills related to physics research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern physics.
- Basic skills for deeply exploring physics.

#### **Doctoral Program**

For the Doctor of Science qualification, emphasis is placed on the acquisition of a particularly high level of expertise in the field of specialization and the ability to utilize it in research in that field. For the Doctor of Philosophy qualification, emphasis is placed on the acquisition of a broad academic perspective and wide-ranging knowledge with the ability to apply these to research in the field of specialization.

- Creative research skills based on an interdisciplinary perspective.
- Advanced skills related to physics research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern physics and apply this to new ideas for research topics.
- The ability to independently conduct physics research.

### **• Department of Chemistry**

The Department of Chemistry of the Graduate School of Science awards degrees as follows, based on the Kobe University Diploma Policy.

- Students shall be enrolled in the Master's Program for at least two years or the Doctoral Program for at least three years, during which time they shall obtain the required credits for completion, in addition to passing the degree thesis examination and final examinations based upon the necessary research guidance.
- However, those with outstanding performance can graduate in a shortened enrollment period.
- In addition to those specified in the Kobe University Diploma Policy, Department of Chemistry graduate students shall have acquired the following abilities by the time they graduate :

### **Master's Program**

- Sufficient English ability to communicate research results.
- Creative research skills based on an interdisciplinary perspective.
- The ability to understand the structure and functions of materials based on fundamental principles.
- Basic skills related to chemistry research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern chemistry.
- Basic skills for deeply exploring chemistry.

### **Doctoral Program**

For the Doctor of Science qualification, emphasis is placed on the acquisition of a particularly high level of expertise in the field of specialization and the ability to utilize it in research in that field. For the Doctor of Philosophy qualification, emphasis is placed on the acquisition of a broad academic perspective and wide-ranging knowledge with the ability to apply these to research in the field of specialization.

- Creative research skills based on an interdisciplinary perspective.
- Advanced skills related to chemistry research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern chemistry and apply this to new ideas for research topics.
- The ability to independently conduct chemistry research.

### **• Department of Biology**

The Department of Biology of the Graduate School of Science awards degrees as follows, based on the Kobe University Diploma Policy.

- Students shall be enrolled in the Master's Program for at least two years or the Doctoral Program for at least three years, during which time they shall obtain the required credits for completion, in addition to passing the degree thesis examination and final examinations based upon the necessary research guidance.
- However, those with outstanding performance can graduate in a shortened enrollment period.
- In addition to those specified in the Kobe University Diploma Policy, Department of Biology graduate students shall have acquired the following abilities by the time they graduate :

### **Master's Program**

- Sufficient English ability to communicate research results.
- Creative research skills based on an interdisciplinary perspective.
- The ability to understand the common mechanisms of life shared by all organisms and the origin of biodiversity based on fundamental principles.
- Basic skills related to biology research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern biology.
- Basic skills for deeply exploring biology.

### **Doctoral Program**

For the Doctor of Science qualification, emphasis is placed on the acquisition of a particularly high level of expertise in the field of specialization and the ability to utilize it in research in that field. For the Doctor of Philosophy qualification, emphasis is placed on the acquisition of a broad academic perspective and wide-ranging knowledge with the ability to apply these to research in the field of specialization.

- Creative research skills based on an interdisciplinary perspective.
- Advanced skills related to biology research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in modern biology and apply this to new ideas for research topics.
- The ability to independently conduct biology research.

### **• Department of Planetology**

The Department of Planetology of the Graduate School of Science awards degrees as follows, based on the Kobe University Diploma Policy.

- Students shall be enrolled in the Master's Program for at least two years or the Doctoral Program for at least three years, during which time they shall obtain the required credits for completion, in addition to passing the degree thesis examination and final examinations based upon the necessary research guidance.
- However, those with outstanding performance can graduate in a shortened enrollment period.
- In addition to those specified in the Kobe University Diploma Policy, Department of Planetology graduate students shall have acquired the following by the time they graduate :

### **Master's Program**

- Sufficient English ability to communicate research results.
- Creative research skills based on an interdisciplinary perspective.
- The ability to understand various processes occurring at the earth, solar system and space based on fundamental principles.
- Basic skills related to planetology research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in planetology.
- Basic skills for deeply exploring planetology.

### **Doctoral Program**

For the qualification of Doctor of Science, more emphasis is placed on the acquisition of a particularly high level of expertise in the field of specialization and the ability to utilize it in research in that field, whereas for the Doctor of Philosophy qualification, more emphasis is placed on the acquisition of a broad academic perspective and wide knowledge and the ability to apply that to research in the field of specialization.

- Creative research skills based on an interdisciplinary perspective.
- Advanced skills related to planetology research fields and the ability to apply them to research.
- The ability to command an overview of a wide range of research fields in planetology and apply this to new ideas for research topics.
- The ability to independently conduct planetology research.