

Diploma Policy of the Faculty of Engineering

The Faculty of Engineering at Kobe University aims to develop human resources with qualities of humanity, creativity and international awareness, as described in the Kobe University Diploma Policy, who also possess rich knowledge of their fields of specialization and interdisciplinary perspectives. In particular, we aim to nurture creativity backed by multiple viewpoints, and the ability to tackle social challenges using knowledge and expertise in engineering. In order to achieve these objectives, the faculty awards bachelor's degrees in accordance with the following policies:

Degree: Bachelor of Engineering

Department of Architecture

Based on the Kobe University Diploma Policy, the Department of Architecture of the Faculty of Engineering awards this academic degree in accordance with the policies described below.

- Students shall study at the faculty for a minimum of four years, and must obtain the required credits for their program of study.
- Prior to graduating, students of the Department of Architecture are expected to acquire the following skills in addition to the abilities set out in the Kobe University Diploma Policy:
- Basic competence in and understanding of engineering as a foundation for diverse knowledge.
- Knowledge of the basic fields of architecture, i.e. design and planning, structural engineering and environmental engineering, which are the fundamentals for creating housing and architectural infrastructure as a platform for human life.
- The ability to integrate these fields and pursue “spatial design” as a means to address and derive specific solutions for practical problems.
- The ability to explore the social roles expected of architecture and utilize their expertise to contribute towards the creation of a prosperous society.

Department of Civil Engineering

Based on the Kobe University Diploma Policy, the Department of Civil Engineering of the Faculty of Engineering, awards academic degrees in accordance with the policies described below:

- Students shall study at the faculty for a minimum of four years, and must obtain the required credits for their program of study.
- Prior to graduating, students of the Department of Civil Engineering are expected to

acquire the following skills in addition to the abilities set out in the Kobe University Diploma Policy:

- Basic specialist competence.
- Engineering ethics and the ability to consider matters in a multi-dimensional manner.
- Practical, problem-solving abilities.
- Skills related to analytical tools, the application of cutting-edge technology, and creative thinking.
- Abilities in relation to the environment, culture and history.
- Abilities in relation to communication.
- Basic academic competence.
- The ability to address challenges in a comprehensive manner.

Department of Electrical and Electronic Engineering

Based on the Kobe University Diploma Policy, the Department of Electrical and Electronic Engineering of the Faculty of Engineering awards this academic degree in accordance with to the policies described below.

- Students shall study at the faculty for a minimum of four years, and must obtain the required credits for their program of study.
- Prior to graduating, students of the Department of Electrical and Electronic Engineering are expected to acquire the following skills in addition to the abilities set out in the Kobe University Diploma Policy:
- Diverse knowledge and experience, and basic academic competence in electrical and electronic engineering.
- Knowledge and expertise in the field of physical electronics.
- Knowledge and expertise in the field of computer and information engineering.
- Knowledge and expertise in the field of electric power control.
- The ability to apply knowledge of electrical and electronic engineering to creatively considering and addressing challenges.

Department of Mechanical Engineering

Based on the Kobe University Diploma Policy, the Department of Mechanical Engineering of the Faculty of Engineering awards this academic degree in accordance with the policies described below.

- Students shall study at the faculty for a minimum of four years, and must obtain the required credits for their program of study.
- Prior to graduating, students of the Department of Mechanical Engineering are expected

to acquire the following skills in addition to the abilities set out in the Kobe University Diploma Policy:

- Diverse knowledge and experience, and basic academic competence.
- In-depth knowledge of the fields of thermo-fluid dynamics and specialized problem-solving skills.
- In-depth knowledge of the fields of material physics and specialized problem-solving skills.
- In-depth knowledge of the fields of mechanical control and specialized problem-solving skills.
- In-depth knowledge of the fields of mechanical design and manufacturing and specialized problem-solving skills.
- The ability to conduct research and development as a mechanical engineer possessing the aforementioned specialist knowledge.

Department of Chemical Science and Engineering

Based on the Kobe University Diploma Policy, the Department of Chemical Science and Engineering of the Faculty of Engineering awards this academic degree according to the policies described below.

- Students shall study at the faculty for a minimum of four years, and must obtain the required credits for their program of study.
- Prior to graduating, students of the Department of Chemical Science and Engineering are expected to acquire the following skills in addition to the abilities set out in the Kobe University Diploma Policy:
- High ethical standards and humanity based on knowledge of chemical science and engineering.
- Basic competence and understanding of engineering that forms the basis of expertise in chemical science and engineering.
- Rich academic knowledge and expertise in material chemistry.
- Rich academic knowledge and expertise in chemical engineering.
- The ability to conduct research by applying academic knowledge of chemical science and engineering to the discussion and resolution of social issues.

Department of Computer Science and Systems Engineering

Based on the Kobe University Diploma Policy, the Department of Computer Science and Systems Engineering of the Faculty of Engineering awards academic degrees according to the policies described below.

- Students shall study at the faculty for a minimum of four years, and must obtain the

required credits for their program of study.

- Prior to graduating, students of the Department of Computer Science and Systems Engineering are expected to acquire the following skills in addition to the abilities set out in the Kobe University Diploma Policy:
- High level specialist knowledge and the ability to apply it.
- Diverse knowledge and the ability to apply it.
- Basic competence in approaching challenges from a variety of perspectives.
- The ability to apply knowledge and creatively approach challenges from a variety of perspectives.
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