

北陸先端科学技術大学院大学研究室教育指針
Laboratory Education Guideline

研究室教育指針は、学則第30条の3に基づき、研究指導の方法及び内容並びに修了までの研究指導の計画をあらかじめ明示するものです。

Based on the Article 30-3 of the general academic rules, the Laboratory Education Guideline is intended to clearly outline the methods and content of research guidance, as well as the plan for research guidance until completion.

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1. 研究テーマ / Research Theme
Computer architecture, real-time embedded systems, energy reduction, highly-functional memory systems, FPGA, real-time scheduling, embedded OS
2. 修得が期待される能力 / Competencies expected to be acquired 研究室教育は必修 A 科目（先端）又は研究支援科目（融合）の一部として単位化されており、この欄はそれら科目のシラバス上の達成目標の一部となります。 Laboratory Education is accredited as a part of the Required courses A (Division of Advanced Science and Technology) or Research Support Courses (Division of Transdisciplinary Sciences), and this section constitutes a part of the course goals stated in the syllabus for such subjects.
Through conducting research, students are well trained in various important skills, including investigation, problem finding, planning and proposal writing, implementation, evaluation, report writing, and presentation, all of which are essential for their future careers. In particular, in this laboratory, through experience in logical design of computer hardware, students develop the ability to envision the concurrent behavior of a group of objects at the system level, as well as the object design skills required to realize it and to solve individual problems. Doctoral students further develop their abilities in discussion and presentation in English.
3. 研究指導方針 / Research Guiding Principle
In this laboratory, research is conducted through weekly laboratory seminars and individual meetings held as needed. The laboratory seminars address topics common to all members and cultivate the ability to read and understand academic literature as well as to explain it in one's own words. In the individual meetings, short-term goals are set, discussions are held on methods for achieving them, and progress toward these goals is reported. The supervisor provides advice on setting and adjusting research directions, while emphasizing that students themselves should devise solutions to individual problems.
4. 研究室活動の内容及び方法 / Content and Methods of Laboratory Activities
<input type="checkbox"/> 週次活動 / Weekly Activities : Study sessions, research progress reports, and presentation practice <input type="checkbox"/> 月次活動 / Monthly Activities : Study sessions, research progress reports, and presentation practice <input type="checkbox"/> 随時活動 / Activities when necessary : Short-term goal setting, discussion of methods for achievement, and progress reporting <input type="checkbox"/> 不定期活動 / Occasional Activities : Academic conference presentations and joint seminars with related laboratories in the Hokuriku region
5. 年間スケジュール / Annual Schedule
大学の全学共通の年間スケジュールは「履修案内」の「学位取得に至るスケジュール」を参照してください。（本学HP参照：ホーム>教育>履修関係>履修案内） Please refer to the “Degree conferment schedule for the master’s program/doctoral program” in the “Degree Completion Guide” for university-wide common schedule (JAIST website: Home >Education>Taking Courses>Degree Completion Guide)

Master Program (For enrolling in April)

- First six months after joining the laboratory: Survey of research fields toward a master thesis or project research
- After the first six months: Research planning and preparation of a research proposal
- M2 first half: Conducting research
- M2 September to March: External presentations (research meetings of the Information Processing Society of Japan, the Institute of Electronics, Information and Communication Engineers, etc.)
- M2 December: Completion of a draft of the master thesis or project research report
- Participation in joint seminar (JAIST) (August)
- Participation in joint seminar (Kanazawa University) (October)
- Participation in joint seminar (University of Fukui) (December)
- As appropriate: Participation in and presentations at peer-reviewed conferences related to computer systems (recommended)

Doctoral Program (For enrolling in April)

- First six months after joining the laboratory: Survey of research fields and various preliminary experiments toward a doctoral dissertation
- After the first six months: Research planning and preparation of a research proposal
- D2 to D3 first six months: Conducting research
- D3 October: Completion of a draft of the doctoral dissertation
- Participation in joint seminar (JAIST) (August)
- Participation in joint seminar (Kanazawa University) (October)
- Participation in joint seminar (University of Fukui) (December)
- As appropriate: Participation in and presentations at peer-reviewed international conferences related to computer systems (At least one international conference presentation is mandatory during the doctoral program)