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 networks and computer systems centered on IoT systems such as smart homes and smart grids
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.
Students will develop an ability to analyze and examine situations by returning to fundamental principles when addressing various societal challenges, and to solve problems by leveraging diverse technologies through various approaches. They will also learn how to acquire necessary information and technologies, how to formalize and evaluate their own ideas, how to communicate their results to others, and how to disseminate them to society. Specifically, students build a foundation of knowledge in computer systems and computer networks. They then practice and master various problem-solving methods, such as implementation evaluation, simulation, and theoretical analysis, to address challenges. Furthermore, students learn how to disseminate developed technologies to the world, not only through academic conference presentations but also through standardization activities both domestically and internationally. Numerous opportunities for joint research with companies provide valuable experience in learning how research and development is conducted in the real world.
3. 研究指導方針 / Research Guiding Principle
Our laboratory focuses on research that emphasizes the practical realization of ideas, with the goal of educating leading engineers. While foundational knowledge like basic software and network protocols is taught through lectures and seminars, research content is approached through collaborative projects with companies and participation in industry forums. This allows students to understand real-world challenges and hone their engineering skills by solving them. We aim to cultivate the ability to grasp the big picture, like drawing on a blank canvas, and to develop the capacity to see the architecture, details, and implementation clearly.
4. 研究室活動の内容及び方法 / Content and Methods of Laboratory Activities
□日次活動 / Daily Activities： □週次活動 / Weekly Activities： Research Progress Seminar (once a week) □月次活動 / Monthly Activities： □不定期活動 / Occasional Activities： Reading seminars, thematic seminars, joint seminars with related laboratories, seminars and presentation practice before academic conferences, collaborative research meetings
5. 年間スケジュール / Annual Schedule 本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)

Reading Seminar (held weekly for approximately two months after new students are assigned)
Joint Seminar with Related Laboratories (early August)
Presentation at a research meeting or conference (at least once before graduation)