

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
Drug delivery system (DDS), biomaterials, nanomedicine, natural compound-based nanomaterials (green tea catechin, hormone, extracellular matrix, etc.), cancer therapy, antiaging, non-invasive therapy, sustained drug release, drug targeting
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 can experience and acquire multidisciplinary knowledge and techniques including polymer synthesis, nanoparticle formulation, various analytical techniques using chemicals, cells, and animals, while carrying out the cutting-edge projects. Students are trained to develop logical thinking, meticulousness, perseverance, troubleshooting ability, insight, creative thinking, and research ethics through processes of experiments, discussions, presentations, and scientific writing practiced at the professional level.
3. 研究指導方針 / Research Guiding Principle
Students are encouraged to pursue their research with strong motivation and enthusiasm by fostering a deep understanding of the scientific and societal significance, impact, and novelty of their work, ensuring that it is competitive with state-of-the-art technologies. Through in-depth discussions on research progress, we guide students to develop integrative thinking, analytical ability, sound judgment, and problem-solving skills. We set stepwise, multiple milestones tailored to each student's individuality, aptitude, and research projects, supporting their steady growth and confidence building. Through journal clubs, research presentations, and manuscript writing, we aim to cultivate scientists who possess not only technical excellence, but also a strong sense of ethics and leadership, enabling them to contribute actively to the scientific community.
4. 研究室活動の内容及び方法 / Content and Methods of Laboratory Activities
<input type="checkbox"/> 日次活動 / Daily Activities : Core Time (10 : 00-17 : 00) <input type="checkbox"/> 週次活動 / Weekly Activities : Regular individual meetings (2-5 times a week, depending on the student and research progress) <input type="checkbox"/> 月次活動 / Monthly Activities : Laboratory Group Meeting (once a month), Journal Club (once a month) <input type="checkbox"/> 不定期活動 / Occasional Activities : Conference Presentation
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)
<ul style="list-style-type: none"> • New Student Orientation (April) • Research Progress Report (July) • Midterm Presentation (December)