

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
Nanoparticle Science and Technology From Synthesis to Applications
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.
<b>Master's Program:</b> (1) Chemical synthesis techniques for nanomaterials, (2) Operational skills for various analytical instruments (transmission electron microscope, X-ray diffractometer, X-ray photoelectron spectroscopy, composition analyzer, etc.), (3) Knowledge of fundamental disciplines (inorganic materials chemistry, crystallography, colloid chemistry, solid-state physics, etc.), (4) Advanced specialized knowledge concerning nanomaterials. <b>Doctoral Program:</b> In addition to the above (1) to (4), presentation skills in English, ability to write research papers in English, ability to formulate research topics, and ability to conduct collaborative research.
3. 研究指導方針 / Research Guiding Principle
<b>Master's Program:</b> Cultivates foundational and specialized knowledge, logical thinking skills, problem-solving abilities, communication skills, English conversation proficiency, and adaptability. Provides employment support leveraging corporate experience. <b>Doctoral Program:</b> Cultivates foundational and specialized knowledge, logical thinking skills, problem-identification abilities, problem-solving abilities, communication skills, English conversation proficiency, and adaptability. Fosters global research talent by providing a cutting-edge and international research environment.
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 : <input type="checkbox"/> 週次活動 / Weekly Activities : Group meeting (once a week) <input type="checkbox"/> 月次活動 / Monthly Activities : <input type="checkbox"/> 不定期活動 / Occasional Activities : Individual meetings (as needed), conference presentations, joint research with companies, etc.
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)

- New Student Orientation in the Laboratory (April–August)
- Participation in the Hokuriku Regional Meeting of the Chemical Society of Japan (M1 students strongly encouraged to attend) (November)
- Participation in the Divisional Meeting of Division of Colloid and Surface Chemistry (One oral presentation required before graduation) (September)
- The Annual Meeting of the Chemical Society of Japan (One oral presentation required before graduation) (March)