Course: Research & Professional Skills — credits: 10

Course code	BFVM25RPS
Name	Research & Professional Skills
Study year	2026-2027
ECTS credits	10
Language	English
Coordinator	F. Feenstra
Modes of delivery	Guest lecture Lecture Tutorial
Assessments	Research & Professional Skills 1 - Other assessment Research & Professional Skills 2 - Other assessment

Learning outcomes

1. You demonstrate effective communication and collaboration skills using different communication styles.
2. You demonstrate taking initiative and acting autonomously in the face of challenges, while also being a team player.
3. You develop a simple business case for a new product or methodology and supervise the execution of a project plan to deliver projects on-time and within prescribed conditions.
4. You create a stimulating environment to facilitate and enhance the performance of a project team by recognizing and utilizing individual team members' strengths and personal qualities.
5. You evaluate the relevance and significance of scientific literature in relation to your research.
6. You evaluate the design and outcomes of scientific research in data sciences and/or life sciences, considering the key elements of the scientific process, applied to own work, work of others, and the relation between them.
7. You evaluate the reliability, validity, and reproducibility of data analysis methods and results, both of own research and that of others, before and/or after the research is conducted.
8. You evaluate and address possible ethical, legal, and societal implications of a research project.
9. You evaluate your own learning process and use this to make well-founded choices concerning your personal and professional development.

Content

This course is designed to enhance your abilities to function as critical, independent, and effective scientific researchers. The course consists of several activities, including a personal assessment (DISC report) to identify preferred communication styles and develop effective communication and collaboration skills. Workshops will cover topics such as code management, version control, business case, IP patenting, and the scrum methodology to teach youto work in a professional environment. Project management lectures will train you to structure project plans, make realistic plans, and integrate effective communication and collaboration skills. The course will also include workshops on lateral thinking, scientific reading and writing, critical thinking, and ethical, legal, and societal implications. All these learning outcomes will be developed and trained throughout the entire master program.

Included in programme(s)

Master Data Sciences for the Life Science

School(s)

Engineering, Life Sciences & ICT

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