



# Principles of open science and research at Turku University of Applied Sciences

Openness is the central principle of science and research. In principle, science and research shall be open and accessible for all. Openness and open science promote the impact of science in society. Several research funders also require the fulfilment of openness in the projects they fund. Open science consists of four sectors:

- An open operating culture
- Open data
- Open access
- Open education

## An open operating culture

In its operations, Turku University of Applied Sciences complies with the principles of open science and promotes responsible science and research. This is mentioned in our strategy. We adhere to the national Declaration for open science and research and the complementing policies and recommendations, and other national and international open science policies, e.g., the UNESCO Recommendation on Open Science. Developing an open operating culture,

also called a culture of open scholarship, is a part of our plan of action. Evaluation is developed according to the recommendation for the responsible evaluation of a researcher in Finland, and open research outputs are considered as a part of staff evaluation. We have signed the DORA declaration and the CoARA agreement.

As a university of applied sciences, our impact is formed through the utilization of the competence and knowledge we produce, and an open operating culture is the prerequisite for the dissemination of outputs outside the world of higher education. At Turku University of Applied Sciences, an open operating culture refers to that the results and methods created in education and RDI and service activities are always made accessible and available for utilization by other operators, unless this is limited by special reasons. Openness and transparency are appropriately integrated in our existing operations and methods. We offer tools, services, teaching, and guidance for the members of our community to support operations according to the principles of open science.

We develop the open operating culture by supporting the competence development of the members of our

# “Reliability and impact through openness.”



community in all sectors of openness. We systematically collect data on the impact of the RDI activities and ensure the implementation of responsible conduct of research and the long-term development of operations. We promote and develop the open operating culture as a part of enterprise resource planning, the constant development of our operations and quality work. We monitor and improve our operations with the existing direct and indirect indicators.



To support the openness of RDI activities and projects, we constantly develop our procedures and implement new technologies when necessary and upon consideration. The objective is to offer an operating environment, in which the opportunity for responsible and high-quality management of research outputs and openness is intrinsic.

In RDI activities, we prefer methods which promote openness, such as community engagement platforms, citizen science, co-creation, open test environments and crowdsourcing. An open and experimenting operating culture promotes the development of the members of our work community, the utilization of their competence and networking. The openness of the methods improves the cooperation with working life and companies, in which case the transfer of competence and knowledge intensifies and yields new information in the mutual interaction of Turku UAS and working life.

In addition to the abovementioned principles of an open operating culture, we have defined the principles of openness regarding research material, publications, and course materials. The operations of open science and research at Turku University of Applied Sciences and their development are coordinated by the Open Science team. The duty of the team is to ensure the quality of operations in all four sectors of openness. In addition to the appointed members, the operations of the team are open for all members of our community.

## Open data

The description data of the materials which accumulate in our RDI activities and projects is open, and it is saved in applicable data catalogues. Within the limits of legislation, agreements and research ethics, the actual data is also opened as extensively as possible. The policies concerning open data are described in more detail in the operating principles of research data management. In managing the data, the good data management practice and methodicalness are complied with. The principles and guidelines are available in the data management guide.

## Open access

Turku UAS is committed to open access publishing. Open access is conducted either by immediately publishing in an open access channel or by self-archiving the publications in the open repository service utilized by Turku UAS. Our own publications are open access. The aim of open-access publishing is to gain as extensive an impact as possible for the scientific and other publications created in our RDI and other activities. High-quality and open access publishing promotes our visibility both regionally, nationally, and internationally. The policies related to open access are described in more detail in the operating principles of publishing, and instructions for open access can be read in the guide for open access.

## Open education

Open education refers to our aim to enable learning extensively for different groups of people and in different contexts and situations in life. Our aim is to bring the learning contents and processes available and to be easily utilized so that the access to grasping the learning opportunities would be as easy as possible. For this purpose, we produce accessible course materials and comply with the accessible teaching and learning practices, increase our supply and focus on the learner's perspective when organizing learning opportunities. We want to arrange learning paths which are flexible and suitable for different learners and, through that, affect the competitiveness of our region in a positive manner.

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