



<b>Module Title</b>	<b>Knowledge Management and Sharing in Agriculture and Forestry</b>
<b>Module Code</b>	MCLs135
<b>Module</b>	AF-02
<b>Degree Program</b>	Master of Science in Life Sciences (MSLS)
<b>ECTS Credits</b>	5
<b>Workload</b>	150 h: Contact –some hybrid sequences 50 h; Group Exercise 25 h; Self-study 75 h
<b>Module Coordinator</b>	<p><b>Name</b> Dr. Lindsey Norgrove</p> <p><b>Phone</b> +41 31 910 21 94</p> <p><b>Email</b> <a href="mailto:lindsey.norgrove@bfh.ch">lindsey.norgrove@bfh.ch</a></p> <p><b>Address</b> Bern University of Applied Sciences, School of Agricultural, Forest and Food Sciences, Laengasse 85, 3052 Zollikofen</p>
<b>Lecturers</b>	<ul style="list-style-type: none"> <li>• Dr. Lindsey Norgrove</li> <li>• Johannes Brunner</li> <li>• Natalie Raeber</li> </ul>
<b>Entry Requirements</b>	E1 recommended
<b>Learning Outcomes and Competences</b>	<p>After completing the module, students will be able to:</p> <ul style="list-style-type: none"> <li>• justify and suggest methods and tools for co-creation and sharing of knowledge ;</li> <li>• involve practitioners (interdisciplinary audience) in co-creation and sharing of knowledge</li> <li>• to motivate an interdisciplinary audience for an interactive workshop, moderate it and reflect on the results.(</li> <li>• understand the way scientific knowledge is produced, managed and disseminated both within and outside of the formal publication system;</li> <li>• procure, understand and interpret scientific publications and assess their relevance for solving specific problems.</li> <li>• write a systematic review, thus collating and synthesising information on a current topic.</li> </ul>
<b>Module Content</b>	<p>Principles of knowledge management and sharing in science; forms, principles and processes of scientific publishing.</p> <p>Co-creation and sharing of knowledge : concepts and tools (examples):</p> <ul style="list-style-type: none"> <li>• Involvement of different stakeholders in research (knowledge system, network analysis, collaborative learning activity)</li> <li>• Elaboration of workshop invitation</li> <li>• Facilitating interactive workshops with stakeholders</li> <li>• IT-supported knowledge-sharing tools</li> </ul> <p>Students elaborate an invitation for an interactive workshop. They facilitate the workshop within an interdisciplinary audience and reflect about the outcome.</p> <p>Systematic literature search in forestry, agriculture and food and nutrition using Web of Science. Scientific writing: exercises in class; students select a narrow topic to deal with a state-of-the-art topic and write a systematic literature review.</p>

<b>Teaching / Learning Methods</b>	<p>Students select a topic for review in consultation with their personal coach and/or the module coordinator. They receive short introductions to the different aspects of knowledge management and guidance through relevant knowledge management textbooks.</p> <p>The main learning method is self-study, properly introduced by lectures and accompanied by exercises. Students have the possibility to do their individual work in class with support from the lecturers. Additional lectures and skills labs on demand are possible.</p> <p>The module leads to tangible products:</p> <ul style="list-style-type: none"> <li>• an invitation for an interactive workshop with interdisciplinary audience, a facilitated workshop and a reflection about the outcomes of the workshop ;</li> <li>• a systematic literature review presenting the state-of-the-art of the selected topic.</li> </ul>
<b>Assessment of Learning Outcome</b>	<ol style="list-style-type: none"> <li>1) Invitation for an interactive workshop, facilitation and debate in seminar (40%)</li> <li>2) Systematic review (60%)</li> </ol>
<b>Bibliography</b>	<p>Bennet D J, Jennings R C (eds.), 2011. Successful science communication: telling it like it is. Cambridge University Press, New York, 462 p.</p> <p>Bolliger E, Zellweger T, 2007. Facilitation. The art of making your meetings and workshops purposeful and time-efficient. Agridea, Lindau, 134 p</p> <p>Christinck, A., Kaufmann, B, 2018: Facilitating change – methodologies for collaborative learning with stakeholders. Pp. 171-190. In: Padmanabhan M. (ed.). Transdisciplinary Research and Sustainability: Collaboration, Innovation and Transformation. Routledge, Abingdon/New York.</p> <p>Gastel B, Day R A, 2017. How to write and publish a scientific paper, 8th Edition. Cambridge University Press, Cambridge, UK. 326 p.</p> <p>Hoffmann V, Gerster-Bentaya M, Christinck A, Lemma M (eds), 2009. Rural extension. Vol. 1: Basic issues and concepts. Margraf, Weikersheim, 251 p.</p> <p>Leeuwis C, 2004. Communication for rural innovation: rethinking agricultural extension. Blackwell Science, Oxford.</p> <p>Pullin A S, Stewart G B, 2006. Guidelines for systematic review in conservation and environmental management. Conservation Biology, 20(6), 1647-1656.</p> <p>Ramalingam B, 2006. Tools for knowledge and learning: a guide for development and humanitarian organisations. Overseas Development Institute, London, UK, 87 p. Accessed on 26.05.2020, <a href="https://www.odi.org/sites/odi.org.uk/files/odi-assets/publications-opinion-files/188.pdf">https://www.odi.org/sites/odi.org.uk/files/odi-assets/publications-opinion-files/188.pdf</a></p> <p>Thayer-Hart N (ed) 2007. Facilitator Tool Kit. University of Wisconsin, USA. 81 p. accessed on 26.05.2020 <a href="https://www.state.nj.us/education/AchieveNJ/teams/strat14/FacilitatorToolKit.pdf">https://www.state.nj.us/education/AchieveNJ/teams/strat14/FacilitatorToolKit.pdf</a></p> <p>Wielinga E, Robijn S, 2020. Energising networks. Tools for co-creation. Wageningen Academic Publishers</p>
<b>Language</b>	English
<b>Comments</b>	<p>The following sequences are compulsory for students: participation in seminars. For details on compulsory sequences, please refer to the detailed schedule of the module, which will be uploaded on Moodle four weeks before the start of the module. Attending the lectures about the systematic review is strongly recommended.</p>
<b>Last Update</b>	20.01.2026 Lindsey Norgrove