Module title	Journal Club Environmental and Natural Resource Sciences
Code	E1
Degree Programme	Master of Science in Life Sciences
Group	Environment
Workload	3 ECTS (90 student working hours: 42 lessons contact = 32 h; 58 h self-study)
Module	Name: Dr. Lindsey Norgrove
Coordinator	Phone: +41 (0)31 910 21 94
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Lecturers	Dr. Lindsey Norgrove, BFH
	Dr. François Lefort, HES-SO
	Dr. Philippe Corvini, FHNW
	Possibly guest lecturers
Entry requirements	Students will be asked to read the selected articles before the start of the module and
	select their preferred papers
	Preferences (1-6) should be listed in the provided excel file and emailed to the module
	coordinator at least two weeks before the start of the module.
	A self-test will be made available on Moodle similar to the morning tests, so that
	students can get used to the format.
Learning outcomes	After completing the module, students will be able to:
and competences	Grasp main ideas of a scientific publication
	Identify novelties in approach, methods and results
	Describe to peers the conclusions and their relevance to the scientific community
	Critically reflect on the above
	Understand meta-analyses
Module contents	Lecturers from the three schools identify recent peer-reviewed papers from their
	specialization that are meaningful to a wider public (e.g. from Nature, Science). They
	provide a general matrix for analysis and questions specific to each paper. Papers are
	grouped into several themes (one per day) and participating lecturers take
	responsibility for entire themes.
	Students choose a paper of their interest for in-depth study and prepare a
	presentation, either individually or in pairs, to their classmates. Yet, all students read
	all the 25-30 papers as preparation for the scientific debate in class and further
	students act as discussants, preparing critical questions.
	The module is structured as follows into the seven sessions:
	1. Introduction: The process of scientific publishing (incl. peer review); the idea of the
	journal club; tasks and responsibilities of students; allocation of papers; etiquette
	in scientific debates; team work contract, if applicable; presentation skills,
	systematic reviews and meta-analyses.

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	<ol> <li>Reading and online coaching (students stay in their home school; the lecturers for each theme are available remotely for questions; the module coordinator is available remotely)</li> <li>Ja7. Journal club in the narrow sense with the following structure (moderation by the lecturer responsible for the theme of the day)</li> <li>Introduction by the lecturer responsible for the theme</li> <li>Presentations and debate for each paper, discussants give their individual arguments in the debate         <ul> <li>The lecturer responsible for the theme corrects for each paper any wrong concepts presented by students</li> <li>Wrap-up by the lecturer: What are the links and cross-cutting issues between the papers, what can we learn from the debates?</li> <li>Overall evaluation (week 7 only) test (20', multiple choice, on Moodle) on all papers can be set at any time of the day</li> </ul> </li> </ol>
Teaching / learning	Inputs on general principles illustrated by examples from NRM and followed by
methods	exercises
	Seminar style for sessions 3-7
Assessment of	1. 5 tests (written, individual, open-book). The results of the best 4 tests count (30%)
learning outcome	2. Presentation (50%)
	3. Performance as discussant (20%)
Format	7-weeks
Timing of the module	Autumn semester, CW 38-44
Venue	Bern and/or online
Bibliography	Pre-course material:
	30 publications will be uploaded on Moodle four weeks before the start of the module.  Luederitz C, Meyer M, Abson DJ, Gralla F, Lang DJ, Rau AL, von Wehrden H, 2016. Systematic student-driven literature reviews in sustainability science—an effective way to merge research and teaching. Journal of Cleaner Production, 119, 229-235.
Language	English
Links to other	The framework for analysis could be useful also in other modules where papers play an
modules	important role.
Comments	The module will be given by lecturers from the three schools; the lecturers from HES-SO and FHNW contribute one theme each linked to their specialisations (including identifying suitable papers and guiding through the respective day).  The present proposal includes systematic reviews / meta-analyses only as a topic, which will be illustrated by examples.
Last Update	02.05.2025

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