

<b>Faculty</b>	<b>Architecture, Civil and Environmental Engineering</b>
Course Title	Project 5: Infrastructure
Number of ECTS credits	6
Hours per week (SWS)	5
Semester	Autumn Term (Winter Semester)
Course objective	<p>By passing this module, students can:</p> <ul style="list-style-type: none"> <li>• Apply the methods of scientific work concerning infrastructure planning, domestic water management and hydraulic engineering as part of a project</li> <li>• Organize and complete project work in the aforementioned disciplines Apply project management basics and organize projects themselves</li> <li>• work in a team</li> <li>• present scientific projects</li> <li>• actively participate in scientific discussions</li> <li>• At the end of Project module 5, students will be able to apply in-depth rules for infrastructure design planning and to work independently on a project in a team, as well as to reflect and meaningfully document the results.</li> </ul>
Prerequisites	None; however, modules of the 2nd year of study in ISU (Bachelor) or equivalent knowledge and skills are recommended
Recommended reading	Students will receive a current literature list at the beginning of the course.

Teaching methods	Seminars, lab, module-related tutorial
Assessment methods	Project work (PL) or term paper (PL) or oral exam (PL)
Language of instruction	English
Name of lecturer	Prof. Dr. Jürgen Knies
Email	<a href="mailto:Juergen.Knies@hs-bremen.de">Juergen.Knies@hs-bremen.de</a>
Link	<a href="https://www.hs-bremen.de/mam/hsb/fakultaeten/F2/U/u5.7_pro5_project_5-infrastructure.pdf">https://www.hs-bremen.de/mam/hsb/fakultaeten/F2/U/u5.7_pro5_project_5-infrastructure.pdf</a>
Course content	<p>The module teaches interdisciplinary work areas for project work in infrastructure planning, domestic water management and hydraulic engineering. More specifically, the following aspects are covered:</p> <ul style="list-style-type: none"> <li>• Planning and building of infrastructure from the point of view of the civil engineer or the environmental engineer</li> <li>• Basic work processes in infrastructure planning, domestic water management and hydraulic engineering</li> <li>• Planning details in the individual disciplines</li> <li>• Building Information Management (BIM) with costing and scheduling</li> </ul>