# Course: Digital Inspection Pro — credits: 5

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| **Course code** | BVVH24KVEI |
| **Name** | Digital Inspection Pro |
| **Study year** | 2026-2027 |
| **ECTS credits** | 5 |
| **Language** | English |
| **Coordinator** | C.R.A. Veenstra |
| **Modes of delivery** | Assignment<br>Lecture<br>Tutorial |
| **Assessments** | Digital Inspection Pro - Assignment |

**Learning outcomes**

The students is able to analyze and identify anomalies in existing infrastructures. The student applies digital tools/innovations to conduct inspections and evaluates them by writing a research report based on scientific standards.

**Content**

Addressing issues of wall cracks due to earthquakes and foundation settlements linked to climate change requires us to look back at recent events. Quick and reliable decisions are crucial, and to achieve that, we need more information, improved skills, and better predictions. This can only happen with the help of more knowledgeable people and advanced technology - better skilled students and the use of Artificial Intelligence (AI).
Building on what we already know about detecting cracks, it's important to gather more data and work on more projects. This isn't just good for our research department; it's a win-win situation for the students and the community. We can break down the process into three steps: Understanding the theory, gaining practical skills, and conducting our inspections.
In the theory phase, students will learn the essential knowledge needed for inspections and research methods. We'll also provide hands-on skills training, including using tools, coding, and research techniques. This prepares students to carry out their inspections on smaller building projects, mainly focusing on housing in the city of Groningen. The idea is to empower students to understand and address structural issues while making a positive impact in their local community.

**Included in programme(s)**

Built Environment

**School(s)**

Arts, Design & Built Environment

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