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Digital Skills @ TU Delft

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11 NOVEMBER 2019

Agenda

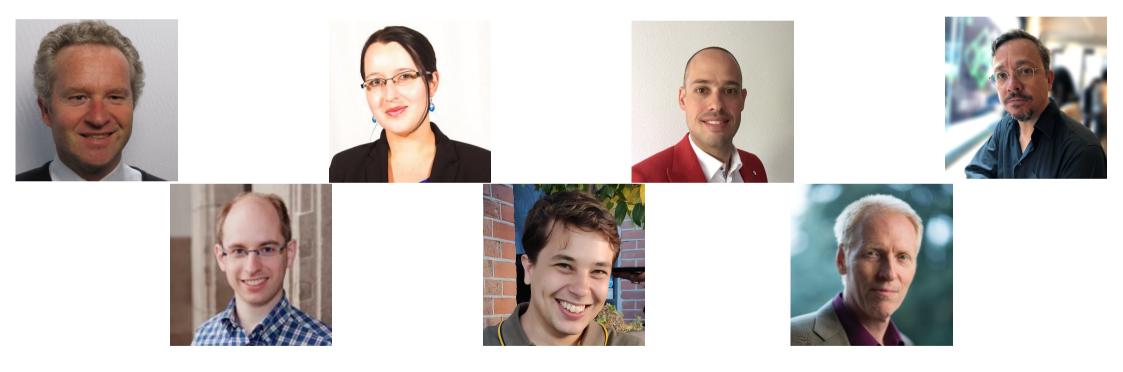


Introduction The team Our products & timeline Ambitions

Demo of Basic Python Programming (Bart Gerrtisen & Udo Ouwerkerk)

Q&A

The Digital Skills Team



Our Products

Module 1: **Basic Python Programming** 1 EC course dealing with Python basics Implemented in the cloud via Vocareum and accessible via Brightspace

Module 2: Intermediate Python Programming 1 EC course dealing with Python concepts to solve simple engineering problems; flexible module that can be tailored to specific programmes Learning Outcomes *Basic Python Programming*

The student is able to:

Apply their general understanding of programming to write a simple programme:

Apply the concept and scope of a variable in Python Define, change and print the value(s) of a variable Use standard coding styles and best practices

Understand and use the basic commands, functions and data types of Python

Understand and use the control flow statements, such as loops and conditional statements (if-then-else)

Apply iteration on iterable data types, like lists Define and use logical expressions, such as equality and negation Define, implement and call a function in Python Import and use items from Python modules

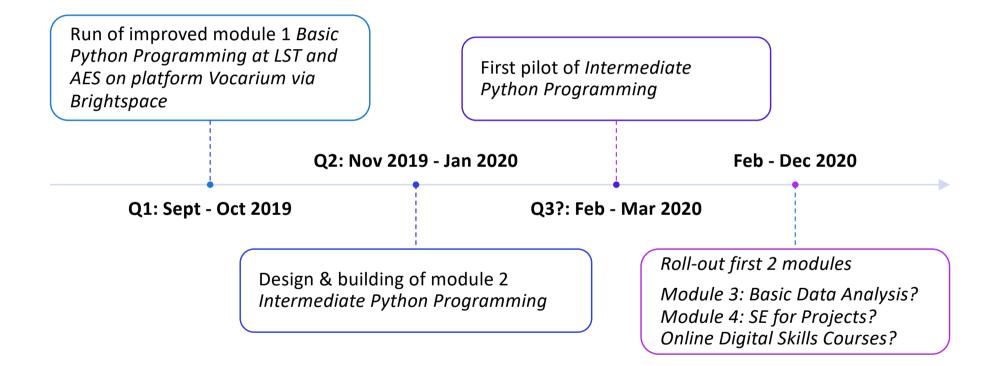
Basic printing and plotting

Intermediate Python Programming

We compiled a list of simple engineering problems each requiring specific features of Python.

Programmes select their problems or add these to the list. We develop a flexible module which can be tailored to the wishes of the programmes.

Status and Planning



Future Ideas

Module 3: Basic Data Analysis for engineering

Module 4: **Basic Software Engineering** for BSc, MSc or PhD (and other) projects

Online Digital Skill Courses where all developed modules are made publicly available with autograding or, better, intelligent feedback using Artificial Intelligence techniques

Questions?