Hanzehogeschool Groningen
University of Applied Sciences

Vak: Digital Electronics 1 credits: 2

Vakcode	ELVP19ADIG1
Naam	Digital Electronics 1
Studiejaar	2021-2022
ECTS credits	2
Taal	Engels
Coördinator	P.J. Kamphuis

Werkvormen	Hoorcollege Practicum / Training
Toetsen	Digital Electronics 1 - Schriftelijk, organisatie ToetsCentrum Digital Electronics 1 LabsLabs - Vaardigheidstoets

Leeruitkomsten

The student is able to:

- binary, Decimal and HEX conversions. BCD coding;
- analyze a combinatoric problem using basic digital gates;
- design and build a combinatoric circuit using Karnaugh maps and Boolean algebra;
- design, build and implement memory circuits with combinatoric logic;
- analyze an existing counter build with JK- or D-Flipflops.

Inhoud

During this unit the student will learn about Boolean algebra, combinatory logic and state machines. This will enable the student to understand the architecture and internal operation of a CPU and its peripherals.

During the theory lessons a few practical’s are performed. (Practical is not graded)

Opgenomen in opleiding(en)

Exchange Technology to Create (autumn)
Minor Technology to Create
Elektrotechniek Major Sensor Technology

School(s)

Instituut voor Engineering