

Vak: Timber Engineering

credits: 3

Vakcode	BVVH21SETIM	Werkvormen	Hoorcollege
Naam	Timber Engineering		Werkcollege
Studiejaar	2022-2023	Toetsen	Timber Engineering - Computer, organisatie
ECTS credits	3		ToetsCentrum
Taal	Engels		
Coördinator	D. Ernsten		

Leeruitkomsten

1. the student is capable of explaining the structural design from basic structures;
2. the student can make a simplified but realistic representation of constructions by properly schematizing the supports and loads;
3. the student is able to calculate and draw the external and internal equilibrium, the tensions and deformations from different constructions
4. the student can apply the current Eurocodes to check and test a basic construction on strength, stiffness and stability.

Inhoud

Lecture 1: material and mechanical properties of the construction material timber;
 Lecture 2: structural design and detailing with timber for solid beams and composite cross section beams;
 Lecture 3: structural design in strength and stability of single solid beams and composite beams;
 Lecture 4: structural design in strength and stability of columns for compression and bending;
 Lecture 5: structural design of connections with nails and screws
 Lecture 6: structural design of other means of connections

Opgenomen in opleiding(en)

Minor Structural Engineering
 Built Environment Exchange Structural Engineering (autumn)

School(s)

Instituut voor Future Environments

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