

Solar Decathlon

MSc2 Solar Decathlon Europe 2021



Spring semester 2021

Tutors

A.A.J.F. van den Dobbelsteen

P.G. Teeuw

P. de Jong

Code	[AR0124]
Credits	[15 ECTS]
Location	[NL/DE]
Excursion	[No]
Costs	[-]

**Only for MSc2 projects*

Project type	[Multidisciplinary]
--------------	---------------------

Approved Master 2 [Yes]	
Architecture design project	

The Solar Decathlon is a competition that brings together universities from across the globe in an attempt to make the most energy and resource-efficient solar-powered housing for urban areas. While raising awareness about sustainable, affordable and industrialized solutions in this field.

Sum of TU Delft has been selected as one of eighteen teams to compete in the 2021 edition of the competition in Wuppertal, Germany. An interdisciplinary group of 50+ students will design a solar-powered housing solution within two years, build a working 1:1 prototype and ship it to Germany where it will be tested on ten competition criteria. Similar to the MOR pavilion, which was TU Delft's award-winning solution for the 2019 competition in Hungary.

The 2021 edition of Solar Decathlon will focus on solutions for residential buildings in an urban area. Sum aims to change the perspective of people in urban areas to change their unsustainable habits.

Sum's goal is to create a movement within communities that stimulate a sustainable lifestyle.

An integrated team across disciplines will design, engineer, promote and acquire finances to build their solution with industry partners and professors and measure its performance against other teams in the spring of 2022. Disciplines involved include architecture, structural design, building physics and performance, materials sustainability, electrical and mechanical design, pr and communications, management and sponsorship and finances.

Enrollment to this course is only possible by joining Sum via an application. For more info see team-sum.com or contact operations@team-sum.com