

Architectural Engineering

MSc2 Extreme Technology; Jacobabad



Projects from previous EXTREME projects

Course Coördinator
Job Schroën

Responsible professor
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Code	AR0142
Credits	15 ECTS
Location	Azraq, Jordan
Excursion	No
Costs	-

Project type Practice related

Approved Master 2 Architecture design project Yes

EXTREME Technology is a course about integral design in extreme environments. This semester the assignment is to design a residential building for the city of Jacobabad, in Pakistan.

Jacobabad is the hottest city on earth, and is considered to be very much affected by global heating. Temperatures exceeded 50° Celcius on several days in 2022. Moreover, the [wet-bulb temperature](#) is often above 35° Celcius, which means the human body cannot cool enough by itself by sweating.

In 2022 the city of Jacobabad was also flooded, adding to the extreme challenges of this region.

New ideas are needed to keep the city habitable.

Students in the EXTREME studio will develop individual concepts into a detailed integral design taking into account things such as indoor climate, available materials and the well-being of children and elderly in particular.

During the course we will have lectures by experts from CARE International, who are involved in relief efforts in Pakistan.

Also, we will have lectures by experts in relevant engineering fields, both from TU Delft and guests.

The teacher team will consist of a main tutor for integral design, and visiting expert tutors for structural design, climate design and facade design.

You can find examples of projects done in the previous semesters here: