

Designing Future Cities with Bamboo

Course Outline
2020

Course Date	21.06.2020 – 11.07.2020
Class Hours	75 contact hours. Course taught in block format.
Lecturer(s)	Dipl.- Ing. Ulla Schuch, Frankfurt UAS (Course Coordinator) Architect BDA Andrés Böppler, Frankfurt UAS Prof. Dr. Martina Klärle, Frankfurt UAS
Course Description	<p>Why and how can happiness be used as a criterion for urban design? Is it possible to design healthy cities? Will striving for the Sustainable Development Goals bring us there?</p> <p>In this summer program, students will incorporate their point of view concerning urban design to answer such questions. Students will learn how urban open spaces – not buildings – define the quality of community and social life in a city. Students will explore the following questions:</p> <ul style="list-style-type: none"> • What are the benefits of urban open spaces? • How is urban open space defined? • What is the difference between nature, landscape, and urban open space? • How can we design urban open spaces to achieve our goals? What are our goals in urban design? • Do we have to redefine our city visions in times of burning nature? <p>In this summer course, students will learn about supergrass bamboo, how it is used in design, and what kind of benefits it brings to cities and citizens. Students will examine where it makes sense to use bamboo and how buildings, facades, and urban products can be designed using bamboo.</p>
Learning Outcomes and Task	<p>Students will design construction concepts and check their quality by working models. The course offers a practical introduction to design construction using bamboo. The summer program addresses urban planners, architects, and landscapers from all over the world, especially from countries where the bamboo grows naturally.</p> <p>In culturally mixed teams of maximum 5 students per group, students will learn methods of thinking and designing new forms of future cities. Students will investigate the given information and compare their findings with corresponding situations from their home countries. From this analysis, they will develop exemplary and speculative proposals for urban open spaces and bamboo-architecture. The proposals have no limits.</p>
Course Method	The summer program combines various interactive teaching methods, as well as lectures, workshops, site visits, presentations, work models, sketching, group work and more. Students are expected to bring a high level of learning commitment and proactive teamwork. The project work must be logged by each student in a handbook. Students are free to choose how to present their findings. Examples could include texts, photo series, short films, or three-dimensional models.

Course Materials	<p>Students should bring the following materials:</p> <ul style="list-style-type: none"> • Laptops • Sketchbook • Pens and colored pencils • Maps from their home city • Outdoor clothes for rainy and sunny weather, working gloves <p>All other materials will be made available or can be purchased during the summer school.</p>
Credits	<p>Students will earn a total of 6 ECTS points for the successful completion of the summer school.</p>
Assessment	<p>Assessment will take place on Friday, July 10 at the University of Applied Sciences in Frankfurt. Students will present their findings in their chosen format to the summer school lecturers. The independent performance of each student within the groups must be clearly demonstrated. The presented works will be critically discussed and evaluated.</p>
Grading	<p>Students will receive one grade for Healthy Cities and Happy Citizens based on the German grading scale. This grade will appear on their transcript of records.</p>

GENERAL INFORMATION

Assessment and Credits

Upon successful completion of the summer course, students will be awarded ECTS points. A single ECTS point is defined as the equivalent of 25-30 hours of student workload, which includes class hours, readings, preparation for class activities, as well as an assessment measure.

Learning will be assessed at the end of the summer course. Lecturers will inform students about the assessment measures at the beginning of the summer course. Students will receive a Transcript of Records showing their grades earned in the course. This document can be presented to their home institution for credit.

Grading

Grades will be awarded based on the German grading system:

1,0-1,3	sehr gut	very good: an outstanding achievement
		good: an achievement that is substantially above average
1,7-2,3	gut	requirements
2,7-3,3	befriedigend	satisfactory: an achievement that satisfies average requirements
3,7-4,7	ausreichend	sufficient: an achievement that still meets the requirements
	nicht	not sufficient / failed: an achievement that does not meet the
5	ausreichend	requirements
NP	No Participation	

Email and Moodle Online Learning Platform

Students are required to use Moodle, our E-Learning Platform. Using Moodle enables students to stay in contact with program administration, lecturers, and fellow students. We also expect students to check their emails on a regular basis. All course materials will be posted on Moodle.

Professional and Class Participation

Class participation is considered a requirement for successfully completing the program. An attendance list will be issued for each class. Student questions, answers, comments, and insights over the course will not only benefit the whole class, but it will also ensure that students have a better understanding of the class material and contribute to their overall academic success. Please avoid being late for class, not turning off your cell phone before class, leaving class before the end of it, talking while someone else (either the professor or one of your fellow students) is talking, and any other unprofessional conduct.

Attendance

Students should attend each class. If students have to miss a class, they should a) complete the required homework or readings, b) get copies of the notes presented that day, and c) talk with classmates about what they missed. Students also need to inform their lecturer if they need to miss class. This can be done in person or via email.

Academic Honesty

Students caught cheating or plagiarizing will fail, at our discretion, either the assignment in question or the entire program.