The bioinspired pavilion showcases how novel co-design principles combined with advanced robotic fabrication techniques applied to natural materials, create a unique architecture that is both ecologically and expressively efficient. The Pavilion is the result of a successful collaboration between students of the master's program ITC at the Faculty of Architecture and Urban Planning at the Stuttgart University and scientists from the Clusters of Excellence “Integrative Computational Design and Construction for Architecture (IntCDC)” in Stuttgart and “Living, Adaptive and Energy-autonomous Material Systems (livMatS)” at the University of Freiburg.

The structural components of the pavilion are biologically wound using a continuous filament winding process using flax fiber, a biological, biodegradable material which is regionally available in Central Europe. The novel approach and the new biological variability of flax fibers presented the researchers with new challenges.

PHOTO CREDITS:

DESIGN: Kerstin O., Oettl, L. Oettel.
THE FACULTY

The study of architecture in Stuttgart goes back to the 19th century. In the early 20th century the »Stuttgart School« established new standards in both innovative and conventional building. After the Faculty was re-established in 1946 this heritage was revived and refined to explore and pursue modern developments in architecture. Stuttgart has one of the biggest and most prestigious faculties of architecture in Germany – 16 institutes, headed by prominent experts in their field, supported by a broad-based team of academics, teaching staff, visiting lecturers and guests. The Faculty provides its students with a wide spectrum of teaching with the distinctive combination of architecture and urban planning.

FACILITIES

From day 1 students work in small groups in workshops under the individual supervision of experienced architects. This form of study perfectly complements the teaching provided in lectures, seminars and requires students to play an active role in projects.

All students are free to use:

• the Faculty library, which has a huge selection of journals and current literature.
• the »casino« (IT) computer pool with fully equipped computer work stations, lending facilities, training/tutorials, experimental lab, virtual reality system, virtual acoustics and pilot service.
• the Faculty workshops for analogue and digital construction of architectural models, wood and metal construction, sculpturing and photography and the Robolab for producing computer-generated prototypes and materials systems.

STUTTGART UNIVERSITY
Faculty of Architecture and Urban Planning
Dean: Prof. Dr.-Ing. Jan Knippers

BEA'S OFFICE
Kaiserstraße 11, 70174 Stuttgart
Tel: +49 (0)711 685-85222
bela@tf.uni-stuttgart.de
www.itf.uni-stuttgart.de

ACADEMIC COUNSELING
Dipl.-Ing. Konstantin Hinsen
Kaiserstraße 11, 70174 Stuttgart
Tel: +49 (0)711 685-8010
k.hinsen@tf.uni-stuttgart.de

KARIN HANIKA
Dipl.-Ing. Kerstin Heidemann
FACULTY MANAGEMENT
Kaiserstraße 11, 70174 Stuttgart
Tel: +49 (0)711 685-82133
kieb@tf.uni-stuttgart.de
www.faculty.de

STUDENT REPRESENTATIVES
Kapellenstraße 9-5, 70174 Stuttgart
Tel: +49 (0)711 685-83286
post@faus.de
www.faus.de

ADMISSIONS OFFICE
Kapellenstraße 9-5, 70174 Stuttgart
Tel: +49 (0)711 685-8050
admissions@tf.uni-stuttgart.de
www.faus.de

STUDENT COUNSELING CENTER
Kapellenstraße 9-5, 70174 Stuttgart
Tel: +49 (0)711 685-83286
stuwo@tf.uni-stuttgart.de
www.uni-stuttgart.de

M.SC. »ARCHITECTURE AND URBAN PLANNING« AT THE UNIVERSITY OF STUTTGART

Of all the arts architecture and urban planning are the most public. Urban planners and architects have the complex and responsible task of creating a liveable future. They respond to economic, social and technical change, developing visions and plans for the world of tomorrow. Their projects are conducted in a multidisciplinary international research environment.

During their studies, students are taught a wide spectrum of subjects: construction, urban design and planning, presentation and design, principles of building technology, architecture/planning history and theory, and social and economic management (HREM). The IREM masters program (M.Sc.) is the ideal platform for exploring the complexity and manifold facets of healthcare real estate, notably functional, technical and practical aspects. The teaching staff are acknowledged experts in their disciplines, also giving students insight into the practical application of the teaching content.

Students can select urban design/planning as their special field within the Faculty workshops for analogue and digital construction of buildings. The »casino IT« computer pool with fully equipped computer work stations is another excellent supplement to the teaching provided in lectures, seminars and projects and offers students the opportunity to use the latest software on the market.

The teaching staff are acknowledged experts in their disciplines, also giving students insight into the practical application of the teaching content.

THE STUDY PROGRAM

Applicants to the master’s program must have a bachelor’s degree from a university or institute of higher education. Experience abroad is also desirable; this is expressly promoted through the Bachelor »International Real Estate« (HREM) program.

The Faculty was re-established in 1946 this heritage was revived and refined to explore and pursue modern developments in architecture. Stuttgart has one of the biggest and most prestigious faculties of architecture in Germany – 16 institutes, headed by prominent experts in their field, supported by a broad-based team of academics, teaching staff, visiting lecturers and guests. The Faculty provides its students with a wide spectrum of teaching with the distinctive combination of architecture and urban planning.

For any further information and dates please visit our websites: