Embedded in the wavelike landscape of the Bundesgartenschau grounds, the BUGA Fibre Pavilion offers visitors an astounding architectural experience and a glimpse of future construction. It builds on many years of biomimetic research in architecture at the Institute for Computational Design and Construction (ICD) and the Institute for Building Structures and Structural Design (ITKE) at the University of Stuttgart.

The pavilion demonstrates how combining cutting-edge computational technologies with constructional principles found in nature enables the development of truly novel and genuinely digital building systems. The pavilion’s load-bearing structure is robotically produced from advanced fibre composites only. This globally unique structure is not only highly effective and exceptionally lightweight, but it also provides a distinctive yet authentic architectural expression and an extraordinary spatial experience.

DESIGN: Kerstin C. Ottmar, Lale Ortak
DIGITAL MODEL CONSTRUCTION WORKSHOP
K1, Room: 2.01 - 2.02

ANALOGUE MODEL CONSTRUCTION WORKSHOP
K1, Room: 2.03 - 2.04

prototypes and materials systems.
photography and the »RoboLab« for producing computergenerated
architectural models, wood and metal construction, sculpturing and

• the Faculty library, which has a huge selection of journals and

FACILITIES

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 realigned 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 and visiting lecturers and guests. The Faculty provides its students with a wide spectrum of teaching with the distinctive combination of architecture and urban planning.