

07.10.2011

The DAVID GILLY INSTITUTE

A COOPERATIVE SCIENTIFIC AND TEACHING PROJECT
OF THE BTU COTTBUS AND THE HOCHSCHULE LAUSITZ (FH)

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COORDINATOR DGI

Profiles in higher education

Grundausrichtung Hochschulprofile

Traditional Profiles:

- University → Research-oriented
- University of Applied Science → Practice-oriented

Parameters for the Cooperation between BTU and HL:

- Maintaining traditional profiles
- Improving permeability for students and faculty
- Optimal use of resources under new regional parameters (demographic changes, avoiding duplicate offerings)

Background and Development

Entwicklung

Developments in the City of Cottbus

- Founding of BTU Cottbus in 1991
Enrollment in Civil Engineering starting 1991
- Founding of HS Lausitz 1991
Enrollment in Civil Engineering starting 1992
- Begin Cooperation Talks between BTU and HL in 2005
- Successful application in the Competition „Bologna – the Future of Teaching“ sponsored by Stiftung Mercator and VolkswagenStiftung: 2010
- Founding of the David Gilly Institute for Teaching, Research and Communication in Civil Engineering in June 2011

Objectives and Parameters

Grundsätze der Kooperation

Main Points of the Cooperation Agreement

- Teaching
- Research
- Organisation
- Further Conditions

Objectives and Parameters

Grundsätze der Kooperation

Teaching

- Bachelor Program Civil Engineering with the profile Structural Engineering at BTU Cottbus maintains its current form (project-oriented course of study) → B.Sc. Degree
- Bachelor Program Civil Engineering at HL (FH) will be reformed for reaccreditation with a new profile: Civil and Facility Engineering as a project-oriented course of study → B.Eng. Degree
- Cooperative use of resources and facilities of both institutions (personell, infrastructure, laboratories, etc.)

Objectives and Parameters

Grundsätze der Kooperation

Research:

- Development of cooperative research projects

Organisation:

- Founding of a cooperative institute as the carrier of cooperative course offerings and research in civil and structural engineering

Further Parameters:

- Proportional reduction of teaching responsibilities for teaching duties for BTU performed by professors of the HL

Concept Konzept

Practice-oriented
Engineering Education

Research-oriented
Engineering Education



Applicants prequalified for study at
FH (Applied Sciences)

Applicants prequalified for university
study

Main Parameters

Merkmale

Charakteristics

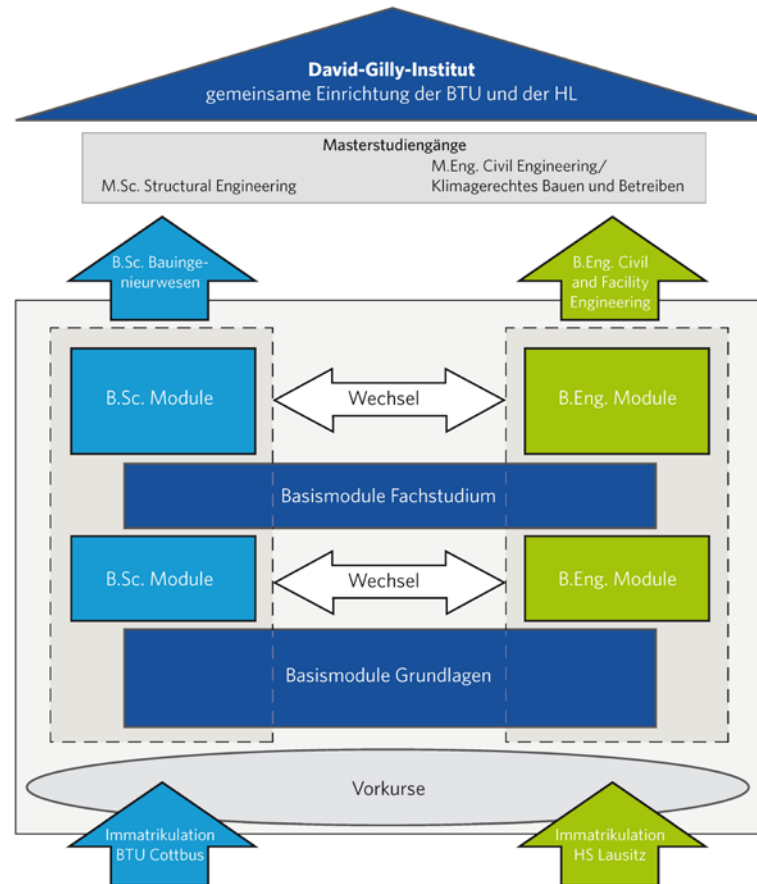
- 2 entrance possibilities (enrollment at BTU or HL)
- Preparatory courses (preliminary semester)
- Attendant tutorials (e.g. Mathematics)
- Cooperative Courses – „Basic“ Modules
- Specific Modules according to respective Profiles
- B.Sc. Degree (BTU) or B.Eng. Degree (HL)

Options

- Transfer between B.Sc. and B.Eng.
- Cross-entrance possibly *without* general prequalification for university study

The Cottbus Model „X“

Das Cottbuser X-Modell



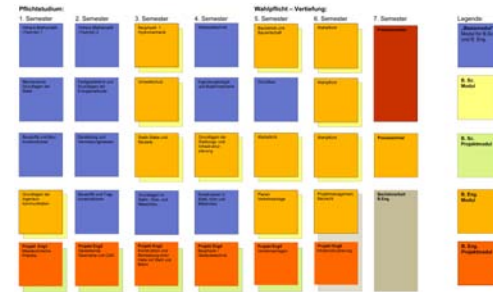
Integrating B.Sc. and B.Eng.

Vernetzung von B.Sc. und B.Eng.



Civil Engineering, B.Sc.

- Enrollment: BTU Cottbus
- Length of program: 6 semesters
- Degree: Bachelor of Science
- Areas of Specialisation:
Structural Engineering,
Energy and Environment



Civil and Facility Engineering, B.Eng.

- Enrollment: HS Lausitz
- Length of program: 7 semesters, includes
1 practical semester
- Degree: Bachelor of Engineering
- Areas of Specialisation:
General Civil Engineering, Building
Systems Engineering and Energy
Technologies

Professorships and Master Programs

Professuren und Masterstudiengänge



BTU Cottbus:

- Structural Engineering
- Degree Program: Structural Engineering, M.Sc.

HS Lausitz:

- Transport Engineering, Hydraulic Engineering, Construction Management, Building Systems Technologies
- Degree Programs: Civil Engineering / Climate-Conscious Building and Engineering, M.Eng.

Challenges and Opportunities

Herausforderungen und Chancen

Challenges

- Fundamental reservations with respect to blending traditional profiles (university and applied sciences)
- Differences in teaching mentality and organisation, including semester schedules
- Locations → where will which courses be taught
- Prejudices and reservations in the teaching and research community

Chances

- Maintaining basic degree programs in Civil Engineering in Cottbus
- Creating attractive and innovative study offerings
- Efficient use of resources
- Increased permeability between degree programs („education climbers“ / diversity)

Perspectives

Ausblick

Winter Semester 2011 / 12

- Approx. 90 students in B.Sc. Civil Engineering, BTU Cottbus
- Approx. 50 students in B.Eng. Civil and Facility Engineering, HS Lausitz

Perspective for 2012

- Attendant evaluation of degree programs
- Accreditation of both degree programs
- Development of coordinated Master degree programs
- Initiation of cooperative research projects

Thanks to Stiftung Mercator for your trust in our success!

.... And for the impulse towards building sharper profiles in Germany's higher education landscape

Sponsored as part of the Initiative

BOLOGNA **ZUKUNFT**
DER LEHRE

by Stiftung Mercator and
the Volkswagenstiftung

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