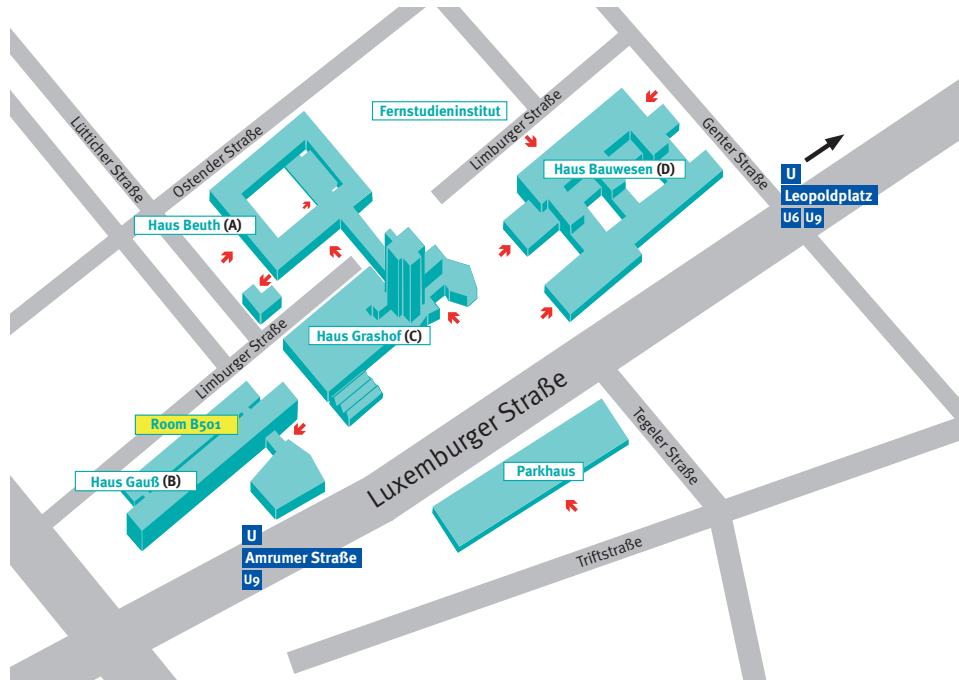


Campus Beuth University of Applied Sciences Berlin



Beuth University of Applied Sciences Berlin

Luxemburger Str. 10
13353 Berlin

Public Transport

U9 Amrumer Straße
Metro U6 / U9 Leopoldplatz

Contact

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ARS

ARCHITECTURE
REURBANIZATION
SUSTAINABILITY

MHARABI
KARABI
RUPAKA
RIPLAN
LAHAYEN
YULANA
MERKEZI

MATPUM
RESEARCH CENTER FOR
BUILT ENVIRONMENT

METU

DEPARTMENT OF
ARCHITECTURE

SUMMERSCHOOL ON ENERGY EFFICIENCY IN BUILDINGS

TIMEFRAME AND CREDITS

The summer school will take place from
23rd JULY - 17th AUGUST
The award of 5 ECTS (credit points, equivalent of 150 hours' workload) will be decided on retroactively.
The first and the last week will take place at Middle East Technical University (METU) in Ankara and the two weeks in the middle are taking place at Beuth University of Applied Sciences in Berlin from July 30th till August 10th.

UNIVERSITY COOPERATION EVENT SUMMER SCHOOL PROGRAMME

The summer school will focus on energy efficiency in buildings, including legal, technical and administrative support mechanisms needed to increase the energy efficiency of buildings. The aim is to bring together representatives from Turkey and Germany to combine architectural and engineering solutions, covering various topics:

Resource-conserving design of buildings,
energy-efficient approaches in the construction sector,
in building technologies and mechanical systems and services engineering.

ADMISSION REQUIREMENTS

- University degree (210 ECTS, CP) in the field of engineering or architecture.
- Good command of English (B2 Level).
- Cover letter with expression of intent and research interests.
- Fulfilling applicable visa requirements.
- Being registered in a graduate program.
- The number of participants is limited.
- Costs for flight and accommodation in Germany will be covered by GIZ.

For more information visit

[https:// summerschool.ee-turkey.org](https://summerschool.ee-turkey.org)

Programme

Monday - 30.07.2018			
<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
09:30	B501	Opening Event	
09:30		Registration	
10:00		Opening Speeches by:	Prof. Dr. Florian Schindler Prof. Dr. Ali Murat Tanyer Prof. Dipl.- Ing Robert Demel Director Alexander Haack
11:00	B501	Energy Efficiency in Buldings	Robert Demel
		ARS History Introduction to energy efficient buildings building physics and energy efficiency	
12:00		<i>lunch break</i>	
13:30	B501	Energy Efficiency in Buldings	Florian Schindler
		BEUTH Campus (Rooftops, PV, Wind, Laboratories)	André Deschan
15:00	B501	Two Face Berlin - The Divided City	André Deschan
		A short brief of urban development in Berlin	
17:00	on site	„Energy Drinks“	André Deschan
		Welcome drink at „Panoramapunkt“ (Lounge B1) Potsdamer Platz 1, Berlin	

ARS 2018

Speaker

Prof. Dr. F. Schindler
Prof. Dipl.-Ing Robert Demel
Dr. André Deschan
Frank Deutschländer
Dipl.-Ing. Lutz Dorsch
Dr. Felix Wellnitz
Prof. Dr.-Ing. Elfriede Herzog
Prof. Dr.-Ing. Doreen Evelin Kalz
Dipl.-Ing. Li Zhou

Dipl.-Ing. Annett Keith
Prof. Dr.-Ing. Paul Kohlenbach
Prof. Dr. Mehmet Koray Pekerici
Prof. Dr. Florian Schindler
Prof. Dr. Ali Murat Tanyer
Craig Wong

Organization

Turkey - Middle East Technical University

Prof. Dr. Güven Arif Sargin (Dean of department of architecture)
Prof. Dr. Ali Murat Tanyer
Prof. Dr. Mehmet Koray Pekerici

Germany - Beuth University of Applied Sciences Berlin

Prof. Dr. Florian Schindler (Director of Distance Learning Institute)
Prof. Kai Kummert (Dean of department of architecture and building technology)
Dr. André Deschan
MA Bernhard Jungk
MSc Niels Henning
MSc Bojan Nisevic
MSc Harindren Paramahamsa

picture sources: www.panoramapunkt.de/de/skysmoke.html
<http://www.stadtentwicklung.berlin.de>
www.beuth-hochschule.de

www.iaapa.org
www.shutterstock.com
www.bam-id.de

Tuesday 31.07.2018			
<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
09:00	B501	Energy Efficiency in Buildings Energy efficiency of buildings in the context of climate change Energy efficiency in residential buildings Support mechanism and regulations (EnEV)	Robert Demel
11:00	B501	Energy Efficiency in Buildings Solar gains, Cooling loads and energy efficiency in practice Energy efficient design and construction (practical examples)	Robert Demel
12:30		<i>lunch break</i>	
14:00	B501	Energy Efficiency in Buildings Building practice, constructions with wood Introduction to „Condetti“ system	N.N.

Programme

Wednesday 01.08.2018			
<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
09:00	B501	Energy Efficiency in non-residential Buildings	Lutz Dorsch
		Heat protection in summertime Simplified method according to DIN 4108-2 Assessment of window ventilation Exercises, influences and simplified calculation of Daylight factor according to DIN V 18599-4	
11:00	B501	Energy Efficiency in non-residential Buildings	Lutz Dorsch
		Daylight Influences and simplified calculation of Daylight factor according to DIN V 18599-4 Lighting - simplified method to calculate light performance according to DIN V 18599-4 Exercises	
12:30		<i>lunch break</i>	
14:00	B501	solar / natural lighting	André Deschan
		Visit to german Parliament from 15:00pm (approximately 90 minutes) Focus on lighting system / natural lighting Platz der Republik 1, Berlin	

Address

Potsdamer Platz 1
10785 Berlin

Platz der Republik 1
11011 Berlin

Fasanenstraße 87
10623 Berlin

Kapelle-Ufer 1
10117 Berlin

Messedamm 22
14055 Berlin

Luxemburger Str. 10
13353 Berlin

Connection

Potsdamer Platz Metro Station

Bundestag Metro Station
Friedrich Straße Metro Station

Zoologischer Garten Metro Station

Hauptbahnhof Metro Station

Messe Süd Metro Station

Leopold Platz Metro Station

Site visits

30.7.2018, 17:00

Potsdamer Platz, Panorama Bar B1 I



1.8.2018, 15:30

German Parliament / Deutscher Bundestag



2.8.2018, 14:00

„Energy Efficient Building“
of Technical University Berlin



6.8.2018, 13:30

Bundesministerium für Bildung und
Forschung
Kapelle-Ufer 1, 10117 Berlin



9.8.2018, 14:00

Messe Berlin



10.8.2018, 14:00

Closing Ceremony



Thursday 02.08.2018

<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
09:00	B501	Net-Zero Energyhouses Energy efficiency for non residential buildings Importance of EnEV and integration of DIN V18599 Accounting methodology of DIN V 18599 Primary energy assessment Zoning of non-residential buildings Introduction into software EnerCalc Joint input of a sample building in EnerCalc	Lutz Dorsch
11:00	B501	Net-Zero Energyhouses Zero energy buildings (ZEB) Passive house standard legal requirement in Germany according to EnEV - regulations	Lutz Dorsch
12:30		<i>lunch break</i>	
14:45	B501	Net-Zero Energyhouses Visit to „Energy Efficient Building“ at Technical University Berlin (TUB) Fasanenstraße 87	Nicole Hiltl

Programme

Friday 03.08.2018			
<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
09:00	B501	Building Automation	Frank Deutschländer
		Bulding automation, steering and controlling electrical regulation	Li Zhou
11:00	B501	Building Automation	Frank Deutschländer
		Measurement for energy and materials Measuring devices for energy management	Anett Keith
12:00		<i>lunch break</i>	
14:15	<i>on site</i>	Building Automation	Prof. Fraaß
		Building automation Steering and controllers in building SPS steering Kieback & Peter Tempelhofer Weg 50	
18:30	<i>on site</i>	Evening River-Tour	André Deschan
		Cruise on Spree River at 7:00pm (optional)	

Friday 10.08.2018				
time	place	Topic	Speaker	
09:00	B501	Life Cycle	Mehmet Koray Pekericli	
		Life cycle information management for sustainability		
11:00	B501	Project Introduction Collaborative Design Exercise	Mehmet Koray Pekericli	
		Project introduction collaborative design exercise		
12:30		lunch break		
14:00	B501	ZERO Emission	Eric Muders	
		THE MISSION = ZERO E-MISSION, Planning and construction of a ZERO emission unit store in St. Pölten		
14:00	B501	Closing Ceremony	Florian Schindler	
		Closing ceremony	Gerd Sedelies	
		Handing over of certificates		

Programme

Thursday 09.08.2018

<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
09:00	B501	Legal Framework	Ali Murat Tanyer
		Legal framework of energy efficiency turkish perspectives	
11:00	B501	Legal Framework	Ali Murat Tanyer
		Turkish perspectives	
12:00		<i>lunch break</i>	
14:15	on site	Site visit Messe Berlin	Florian Schindler
		Exhibition grounds Energy inspection at Messe Berlin	

Monday 06.08.2018

<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
08:45	B501	Heating, Cooling Technologies	Elfriede Herzog
		Laboratory: Cooling and heating technology Central heating	Doreen Evelin Kalz
11:00	E 26	Heating, Cooling Technologies	Elfriede Herzog
		Energy efficient heating and cooling systems Ventilation and cooling technologies	Doreen Evelin Kalz
12:00		<i>lunch break</i>	
14:15	on site	Energy Efficiency in Buildings	Elfriede Herzog
		Trip to a energy efficient reference building <i>Kappelle Ufer in Berlin 10117</i>	Doreen Evelin Kalz

Programme

Tuesday 07.08.2018			
<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
08:30	B501	Energetic Refurbishment of Buildings Fieldtrip: „Energieeffizientes Wohnen im Denkmal“ (energy efficient living in protected historical buildings) Schönhauser Allee and Schillerpark	N.N.
12:00		Meeting point: Schönhauser Allee 59 10437 Berlin <i>lunch break</i>	
13:30	B501	Energetic Refurbishment of Buildings Energetic refurbishment of existing buildings and cultural heritage	Felix Wellnitz
16:00	B501	Energetic optimization Energy efficiency in buildings Energetic optimization of existing buildings worldwide	N.N.

Wednesday 08.08.2018			
<i>time</i>	<i>place</i>	<i>Topic</i>	<i>Speaker</i>
09:00	B501	Renewable Energy in Buildings Renewable Energies Energy generation/ PV - for residential buildings	Craig Wong
11:00	L14	Renewable Energy in Buildings Heat pumps, solar thermal systems application for buildings, KEE renewable energy	Craig Wong
12:30		<i>lunch break</i>	
14:00	L14	Renewable Energy in Buildings Renewable energies laboratory Solar thermal systems Solar cooling	Craig Wong Paul Kohlenbach