



TU Berlin Campus El Gouna (top), Campus Charlottenburg (bottom)

## Admission Requirements

A relevant Bachelor's degree (or equivalent) is required for admission to the program. Professional experience is considered a valuable asset. Additional qualifications, e.g. social engagement, are also taken into consideration.

Relevant Bachelor's programs include

- Automatic Control & Systems Engineering
- Mechatronics
- Energy/Power Engineering
- Electrical/Electronics Engineering
- Mechanical Engineering
- Environmental Engineering or technically related
- Industrial Engineering
- Chemical Engineering

Technische Universität Berlin

**Campus El Gouna**

## Intercontinental Study Experience

Students have the opportunity to study in English, moving between Egypt and Germany for the different semesters.

**IT for Energy**

**Master's Degree Program**

## Contact

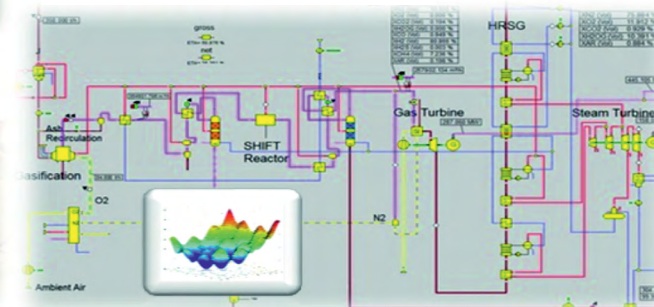
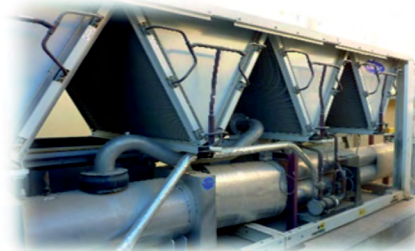
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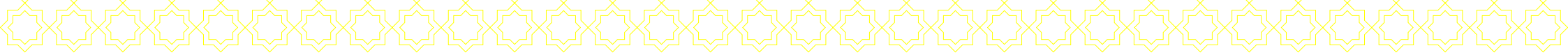
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# Master Degree in IT for Energy

Information Technologies for Energy (ITE) is a new master program at TU Berlin Campus El Gouna. You can be one of the first students for this program. ITE is a unique master program in Egypt and the MENA region. ITE is a challenging and modern topic for study, practical work and research. The ITE program is dealing with the design, development, optimization and realization of fossil fuel- and renewable energy-based energy-conversion processes /plants with the support of information technologies. The ITE program covers the application of technologies developed in IT in the energy domain. The main application areas are within electricity generation, energy storage and consumption. Students will learn how to analyze, design, and implement information technologies to energy sector in order to increase energy efficiency, cost- and environmental effectiveness of the energy conversion processes/ plants.

## Graduates of the ITE program

- have in-depth knowledge as well as a wide range of methods at hand,
- are able to scientifically analyze and solve complex problems,
- are able to critically consider information and recent developments in the light of the latest findings from their disciplines and are able to deduct conclusions for their own work
- in addition to pronounced scientific and analytical skills they have acquired extensive teamwork and communication skills that will enable them to exercise leadership responsibility.

**Upon completion of the program, successful students graduate with a Master of Science degree from Technische Universität Berlin, Germany.**

## Language of Instruction

All modules of the ITE program are given in English only.

# Application

The master’s program ITE commences once a year in October. Please see the website for the application form, updated information on the deadlines, and required documents.

Semester	1st semester El Gouna	2nd semester Berlin	3rd semester El Gouna	4th semester topic depending
1	Energy Engineering 1	Information Technologies for Energy	Energy Systems Optimization	Master Thesis
2				
3	Intercultural Communication & Project Management	Advanced Information Modeling	Engineering Electives	
4				
5	Engineering Electives	Engineering Electives	Engineering Electives	
6				
7	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
8				
9	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
10				
11	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
12				
13	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
14				
15	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
16				
17	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
18				
19	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
20				
21	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
22				
23	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
24				
25	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
26				
27	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
28				
29	IT & Economics Electives	IT & Economics Electives	IT & Economics Electives	
30				
CP ↑	30	30	30	30

Legend		Total CP
	Interdisc. & -cultural competency	6
	Energy Engineering	30
	Engineering Electives	18
	Master Thesis	30
	IT & Economics Electives	36

Electives Engineering (5-6 modules to be selected)	Electives IT, Economics, Law (3-4 modules to be selected)
Introduction to Energy Engineering	Economic Principles for Engineers
Energy Engineering II	Environmental Management
Refrigeration and Air Conditioning	Fundamentals of Electrical Networks
Integration of Renewable Energies	Heterogeneous and Distributed Information Systems
Conversion Technologies for Renewable Energies	International Contract and Competition Law
Components of Energy Conversion Systems	Energy Economics I
Energy for Buildings	Energy Economics II
Energy Storage	Internship
Photovoltaics	
Internship	

# Locations

Pursuing the ITE program at TU Berlin Campus El Gouna offers the exceptional opportunity to study at two very distinct locations that differ tremendously not only in size but also in their social, cultural, and ecological characteristics. This unique set-up constitutes ideal conditions for the students of Business Engineering to apply their newly gained knowledge to a wide number of diverse conditions and environments.

The town of *El Gouna*, about 20 km northeast of Hurgada International Airport, is nestled charmingly between artificial lagoons on Egypt’s stunning Red Sea coast. The 2012 opened TU Berlin Campus El Gouna is cited in the center of this reposeful environment, offering ideal study conditions through its outstanding infrastructure and award-winning architecture.

In sharp contrast to the tranquility of El Gouna, the German capital *Berlin* boosts with all the social and cultural amenities of a modern metropolis. Located in the heart of the city, TU Berlin’s mother campus, which accommodates some 32.000 students, displays an impressive and motivating backdrop for academic advancement and research.

## Features

ITE is a full-time two year program that is arranged in four subject-specific areas: Energy Engineering compulsory modules, Interdisciplinary and -cultural module, Engineering electives and IT, Economics & Law electives. During the first and thirds semester the modules are offered in El Gouna, Egypt. The second semester is a mobility semester in Berlin and the location for the master thesis is chosen according to the subject.

