Master Degree in Business Engineering

The Business Engineering (MBE) program is shaped to prepare professionals for doing advanced research and at the same time for the industry world at levels beyond those requiring a bachelor‘s degree.

In contrast to MBA programs the MBE program is designed to prepare students for managerial roles combined with a strong technical background, as frequently required by corporations in today‘s economy. The composition of the MBE program is exceptional as it strengthens the engineers’ ability to lead projects and supports the engineers to become more effective technical experts by understanding how their individual engineering competencies can promote the economic goals of their corporation and its accounts. Furthermore, the business engineer is educated for the broader management in high tech organizations.

During the degree program students learn

- planning and operation of power engineering processes, and the methods to deal with
- approaches for energy and cost savings (environmental issues), and integrate appropriate measures in power engineering processes.
- how to use commercial simulation tools and evaluate the strengths and weaknesses of power engineering processes
- how to develop concepts for economical and environmental friendly system operation

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 MBE program are given in English only.

Application

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

Begin of studies in winter semester (October)

Semester →	1st semester El Gouna	2nd semester Berlin	3rd semester El Gouna	4th semester topic depending
1–6	Energy Engineering 1	Energy Economics 1	Project Energy Systems	Master Thesis
7–12	Intercultural Communication & Project Management	Energy Economics 2	Interdisciplinary Project	
13–18	Engineering Electives	Economics Electives	Engineering Electives	
19–24	Engineering Electives	Economics Electives	Engineering Electives	
25–30	Engineering Electives	Economics Electives	Economics Electives	
CP →	30	30	30	30

Legend		Total CP	120
	Interdisc. & -cultural competency	12	
	Business Engineering	24	
	Engineering Electives	30	
	Master Thesis	30	
	Economics and Law Electives	24	

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

Locations

Pursuing the MBE 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 Hurghada 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

MBE is a full-time two year program that is arranged in four subject-specific areas: Business Engineering compulsory modules, Interdisciplinary modules, Engineering electives and 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.