

EU-TEMPUS Project EDUWAT

“ Development of a Modern Higher Education System  
for Water Engineering in Syria ”



Requestes to the universities  
by **General Company for Engineering  
Studies and Consulting GCEC**

**Kick-off Meeting**

**From 09/01-until 13/01/2011**

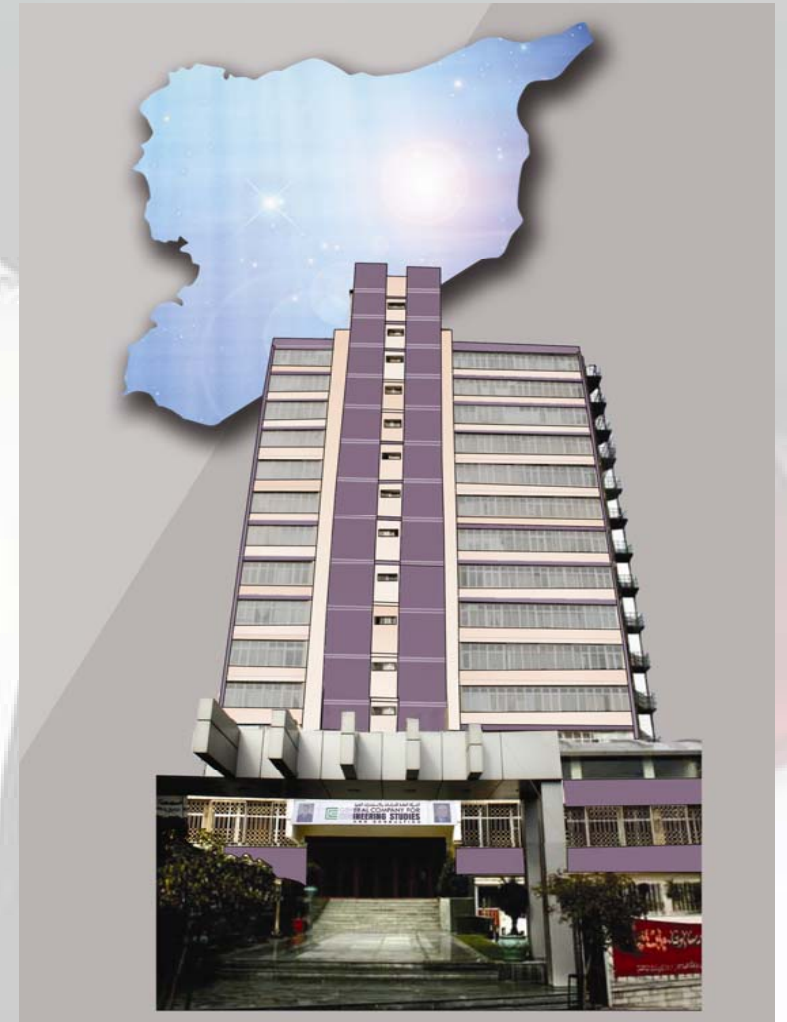
**In Damascus University**

**from 9<sup>th</sup> until 13<sup>th</sup> January 2011**

# GCEC

Water and Wastewater Engineering Directorate in GCEC is responsible for studying and reviewing many of projects for the supply of drinking , Rain and wastewater systems and hydrological and hydro-geological studies... in addition to studying water purification plants and treatment plants.

- The company also supervises the implementation of many of these projects.



## **Water and Wastewater Engineering Department in GCEC**



**Water resources  
management  
and  
wastewater  
management.**



# water and environment belong to the whole world

Therefore :

- Each and everyone who participates in these issues has got a lot of responsibilities and they should be directly acquainted with the latest developments and researches in all fields of water and environmental engineering in all the world.
- The development of these engineers is the responsibility of all scientific research institutions, mainly:  
**Universities.**





## University graduates employed for us are the graduates from the Faculty of :

- **Civil Engineering, specialized in of water engineering, environmental engineering and structural engineering**
- **in addition to mechanical and electrical engineering.**



**Such graduates are assigned to different projects in the company according to their specializations on one hand, and to the needs of the company on the other hand.**

# The basics that will help us to develop our human resources .



- What are the required qualities graduates should have at the beginning of their work for the company



- Areas of improvement of a graduate during work life.



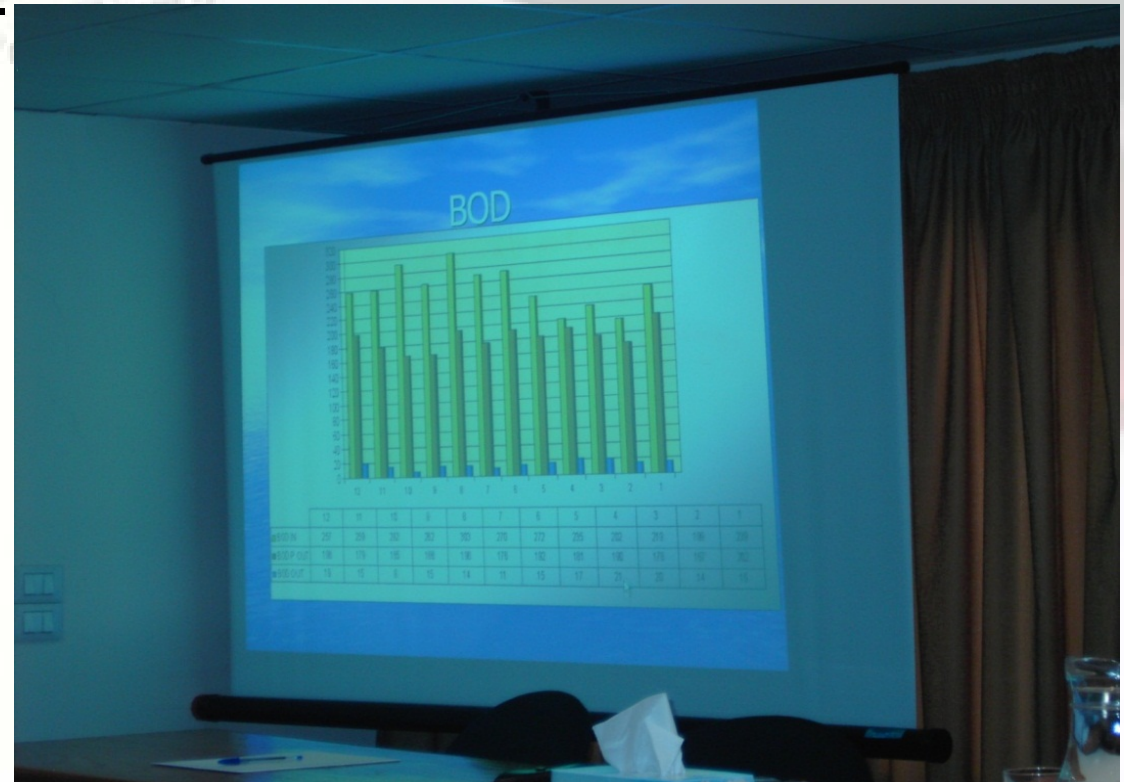
- Our perspective about the relationship between the university and the company



## What are the required qualities graduates should have at the beginning of their work for the company

- For sure, academic education . The new varying scientific curriculums help enhancing the engineers' approaches and expanding their horizons.
- But, the role of these courses would shrink and be insufficient without practical exercises.

Therefore, the more practical classes relevant there are, the more qualified and prepared the graduate engineer would be.





# What are the required qualities graduates should have at the beginning of their work for the company

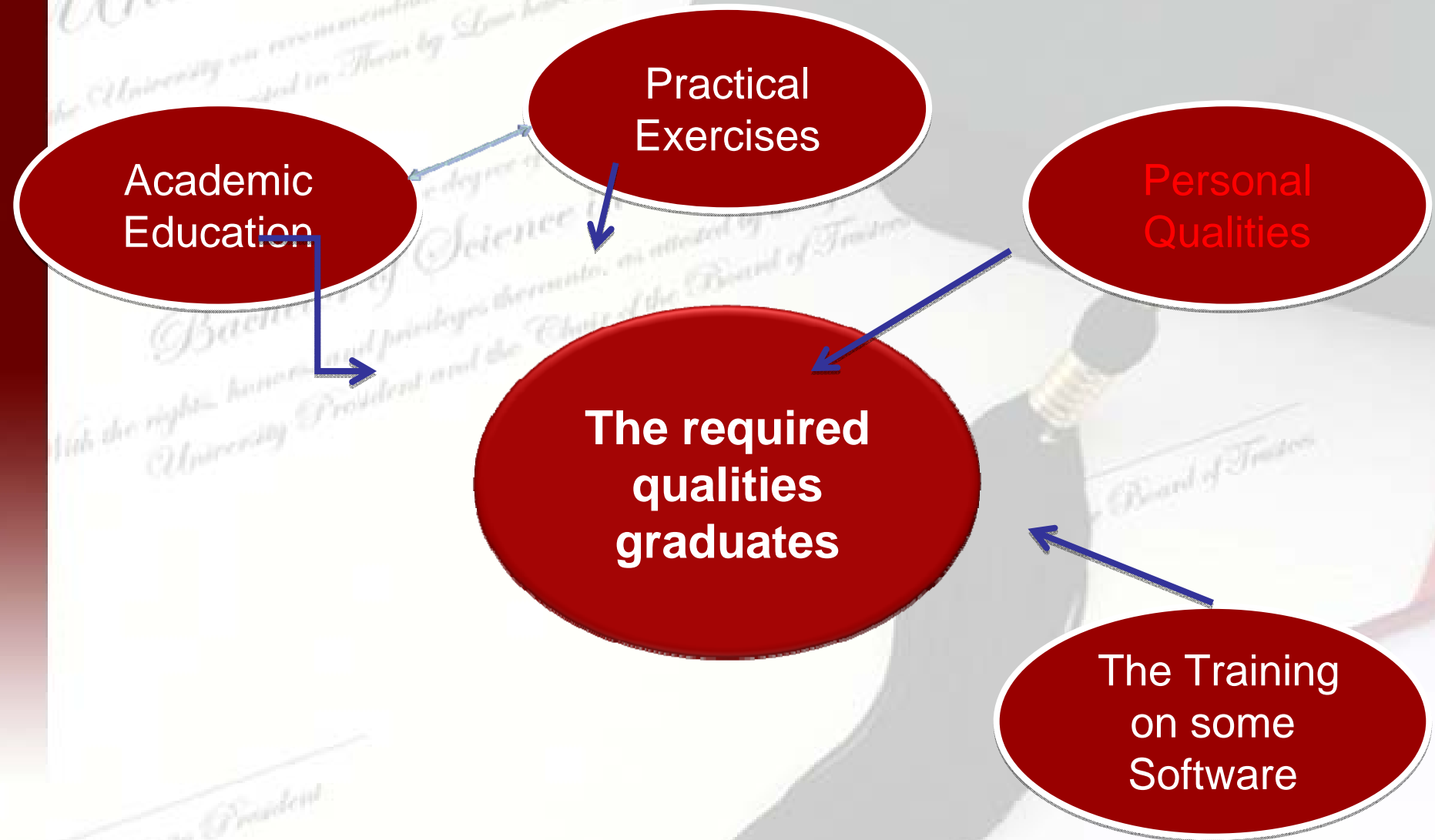


- We mean by "practical exercise":  
the application of theoretical studying of engineering and the involvement of the student in studying samples of real projects, also having an idea about implementing some projects as much as possible





# What are the required qualities graduates should have at the beginning of their work for the company



## What are the required qualities graduates should have at the beginning of their work for the company

- We suggest a practical diploma concerned with the implementation of Civil Engineering for engineers who do such kind of works (like site supervision on implementation of projects).
- We are a bit worried about canceling some specializations in the Faculty of Civil Engineering.
- As a company for engineering studies, we prefer the engineer chooses us willingly, because working with us needs a lot of patience, persistence and loyalty.



## Areas of improvement of a graduate during work life .

The capacity and energy of the company's engineers is so important for the company to succeed

**A good & successful engineer needs to keep updated about the latest scientific developments.  
they should also learn how to cope with the most modern software in the field.**



Otherwise the company would lose the competition with the other companies working in the same domain.





## Areas of improvement of a graduate during work life .

The company does its best to keep updating through participating in conferences, seminars and forums, and participating in some specialized exhibitions.

### Still, we are facing many difficulties:

- Lack of decentralization that helps making quick decisions to participating in courses and activities, especially the international ones.
- The difficulties in obtaining the software due to political circumstances which also affects scientific connection with a lot of pioneering institutes and companies in the world.
- Lack of local Codes related to water/hydro and sanitation studies,
- in addition to the lack of reliable information and data ,

## Our perspective about the relationship between the university and the company:

College



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Most often, after an engineer finishes his study in the university and works in an office or an enterprise, his/her contact with university reduces or even ends. Their interests and concerns become limited to work atmosphere, unless they are offered some opportunity or we get their attention

**Our perspective about the relationship between the university and the company:**

**College**

**GCEC**

We hope to get more contact between Engineering Faculties and companies for Engineering Studies and Consulting in the country, especially governmental Ones



## Our perspective about the relationship between the university and the company:

College



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- To express the previous figure by the following points:
- The two parties should agree on improving the methods of engineering studying, supervising and implementation.
- The two parties need to consider exchanging information and results of studies, saving both time and effort.
- Colleges should consider keeping companies (like our company) updating about the scientific researches and developments, and it should suggest the latest software appropriate for the work of each company.

## Our perspective about the relationship between the university and the company:

College



GCEC

- The company should offer the aid of its engineers in training college students (practical classes) through presenting samples of real projects, of which students can benefit.
- The Company could be a great help in the education process inside college by organizing training courses for students on applying the plan of a certain project, and examining the implementation of such a project.
- High studies students could function as a direct connection between the company and the university.

**Our perspective about the relationship between the university and the company:**

**College**



**GCEC**

**Finally**

**As a state-run institute, we are having some problems because of the lack of decentralization in making decisions related to scholarships and international activities, which may prevent us from playing a better role as a center for scientific studies.**

**back**





**Thanks for your Attention**

**GCEC**