

Building Climatology Master, New field of Science in Egypt, BuildClimat

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Overveiw

- **BuildClimat**
 - Why important
 - Objective
 - Who is interested
 - Proposal
- **TEMPUS cooperation with Egyptian universities**
 - Different ways of university organization
 - Cultural differences
 - Difficulties
 - Suggestions

Why important

- **Wide gap between engineering courses and building construction market**
- **Sever problems are created**
 - *High energy consumption*
 - *High cost*
 - *Bad interior conditions (High temperature, Humidity..)*
 - *Buildings failure*
- **Limitation of European Numerical modeling to Cold areas.**

Objective

- Introduction postgraduate master course in Building Climatology at Egyptian Universities
 - Create new generation of Building Climatology Engineer
 - More interacting between education and construction market

Who is interested

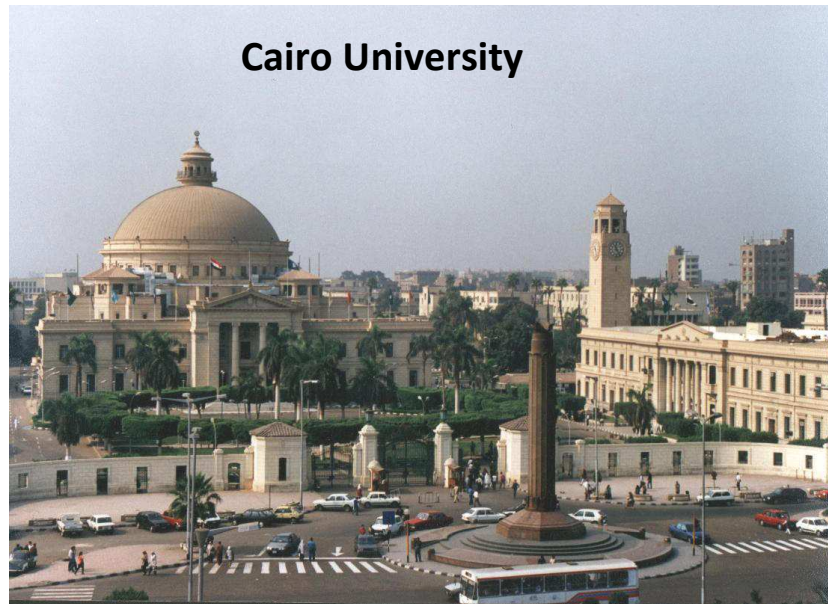
- From EU
 - Technical University of Germany,
 - PINE Potsdam Institut für nachhaltige Entwicklung GmbH (Industrial partner)
 - Laboratoire d Etude LEPTIAB France
 - Technical University of Denmark, Denmark
 - Chalmers University of Technology in Sweden
- From Non EU Members
 - Mansura University, Mansura, Egypt
 - Alexandria University, Alexandria, Egypt
 - Helwan University, Helwan, Egypt
 - Housing and building research center Cairo, Egypt
 - Construction Research Institute, Qanater, Egypt
 - The Arab Contractors (Osman Ahmed Osman & Co.) Industrial partner

Proposal

- set up 'relevant' post-graduate courses in building climatology:
- Preparing an efficient junior and senior staff to be able to teach building climatology
- Enhancement of the teaching and IT skills of academic staff as well as lab skills:
- Developing electronic materials for teaching and learning (eLearning tools):
- Establishing the first building climatology laboratories in Egypt:
- Enhancing the department's IT infrastructure and data base establishment

TEMPUS cooperation with Egyptian universities

❖ Public Universities



Private Universities



Public universities

1. [Ain Shams University \(established in 1950\)](#)
2. [Al-Azhar University \(established in 975 AD\)](#)
3. [Alexandria University \(established in 1942\)](#)
4. [Al-Fayoum University \(established in 2005\)](#)
5. [Al-Minya University \(established in 1976\)](#)
6. [Assiut University \(established in 1957\)](#)
7. [Banha University \(established in 2005\)](#)
8. [Beni-Suef University \(established in 2005\)](#)
9. [Cairo University \(established in 1908\)](#)
10. [Helwan University \(established in 1975\)](#)
11. [Kafr El Shiekh University \(established in 2006\)](#)
12. [Mansoura University \(established in 1972\)](#)
13. [Military Technical College \(MTC\) \(established in 1957\)](#)
14. [Minufiya University \(established in 1976\)](#)
15. [Sadat Academy for Management Sciences \(established in 1981\)](#)
16. [Sohag University \(established in 2006\)](#)
17. [South Valley University \(established in 1994\)](#)
18. [Suez Canal University \(established in 1976\)](#)
19. [Tanta University \(established in 1972\)](#)
20. [Zagazig University \(established in 1974\)](#)

Private universities

1. [Akhbar El Yom Academy](#) (established in 1988)
2. [Al-Ahram Canadian University](#) (ACU) (established 2005)
3. [American University in Cairo](#) (AUC) (established 1919)
4. [Arab Academy for S &T and Maritime Transport](#) 1972
5. [Arab Open University](#) (established in 2002)
6. [British University in Egypt](#) (BUE) (established in 2005)
7. [Canadian International College](#) (CIC) (established 2004)
8. [Delta University for Science and Technology](#) (2007)
9. [El Shorouk Academy](#) (established 1995)
10. [Egyptian Russian University](#) (established in 2006)
11. [Université Française d'Égypte](#) (UFE) (established in 2002)
12. [Future University in Egypt](#) (established in 2006)
13. [German University in Cairo](#) (GUC) (established in 2003)
14. [Heliopolis University](#) (established in 2008)
15. [Higher Technological Institute](#) (established in 1989)
16. [International Academy for Media Sciences](#)
17. [Misr International University](#) (MIU)
18. [Misr University for Science and Technology](#) (1996)
19. [Modern Academy In Maadi](#) (established in 1993)
20. [Modern Sciences and Arts University](#) (1996)
21. [Nahda University](#) (established in 2006)
22. [Nile University](#) (established July 2006)
23. [October 6 University](#) (established in 1996)
24. [Pharos University in Alexandria](#) (established 2006)
25. [Science Valley Academy](#) (established in 2006)
26. [Sinai University](#) (established in 2006)
27. [Thebes Academy](#) (established in 1980)

The Supreme Council of Universities (SCU)

The Supreme Council of Universities (SCU) was established in 1950 to plan the policy of the university education and scientific research as well as to coordinate among the 17 Egyptian public universities. It is presided by the Minister of Higher Education and State for Scientific Research and directed by a Secretary- General, the universities Presidents and 5 experienced members in the higher education and public affairs.

Different ways of university organization

- University administration Structure In Egypt
- Heads Roles In University
- Selection of University Staff
- Higher Education process

Cultural differences

- Studing is duty
- Creativity
- Critics and discussions
- lecturer Student relation

Difficulties

- Shortage of financial funds for research
- Higher Education is almost Free
- Poor income of staff
- Number of students per each University
- Future potential work and Stress
- Mixed genders and peaceful of mind
- Non free educational life

Suggestions

- Free Educational life
- Improve staff promotion system
- Real Awards for real distinguished persons
- More involving of young researchers in Joint European projects
- Increasing Education Experts Exchange programs