



With the support of the  
Erasmus+ Programme  
of the European Union



# Advanced Curriculum on Energy Efficient Buildings in Extreme Continental and Sunny Climate / CEBEC



# Agenda

1. Welcome and presentation of agenda (JA)
  2. Participants (short round) (All)
  3. Minutes from last meeting (JA)
  4. WP1 – Ongoing work (ML)
  5. WP2 – Ongoing work (JA, ML, DK, TB)
- Break 15 min
6. WP3 – Ongoing work, status (TK)
  7. Economy – Information (BR)
  8. Any other business (All)
  9. Next steps (JA)
  10. End of meeting (JA)

# WP1 Preparation (MUST)

Analysis of needs by surveys together with relevant stakeholders and authorities.

It is important to **find out the needs in the building sectors of engineers and architects taught in Energy Efficient Buildings**. Surveys and contacts will be used that involves e.g. the syndicate of engineers, construction companies, and real estate owners. This will help to **quantify future need for trained specialists** in the field and **identify specific important areas** of interest.

English courses for teachers will be organized.



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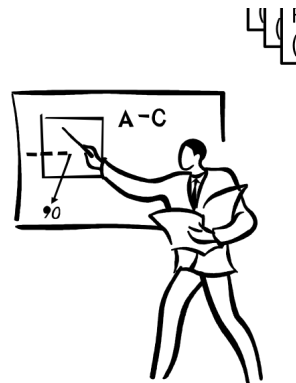
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# WP2 Development (LU)

Development of courses and Experiment stations.

The development includes structure, admission, courses and graduation requirements.

Courses will be developed to be included in Masters or Bachelor programs. The courses will be developed together with the European partners.



# Time plan - Year 1

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
1.1	Needs of higher education on EEB and RE	3= 7X	1= 1X	1= 1X	1= 1X	1X	1X	2X						
1.2	Suggestions for higher education programs on EEB	2= 8X				1= 1X	1X	2X	2X	1= 2X				
1.3	Language training	8X				1X	1X	1X	1X		1X	1X	1X	1X
2.1	Proposed new Higher Education Programs, courses and equipment for laboratory and teaching facilities	6= 24X						1= 4X	1= 4X		1= 4X	1= 4X	1= 4X	1= 4X
2.2	Approved course materials	4= 5X					1= 2X		1= 1X		1= 1X		1= 1X	
2.3	Developed laboratory facilities	11= 16X									2= 4X	3= 4X	3= 4X	3= 4X

# Description

- The project aims to satisfy all the partners on their specific needs and visions.
- All three Mongolian Universities intend to **developing new courses as well as updating older courses**. Furthermore, the Mongolian Universities also plan to **develop the laboratory facilities**.
- All universities are also have an interest in developing their teaching methods. This includes not only new laboratory work but also new teaching methods

# Where are we?

- The current situation at
  - MUST
  - MULS
  - GMIT

# Courses to be developed or updated - MUST

## **From application - MUST**

- Retrofitting of buildings (New)
- Solar Energy (New)
- Scientific Writing in English, (New)
- Short term training for Engineers on Building (New)
- Energy Efficiency (New)
- Renewable energy planning in Building (Update)

# Courses to be developed or updated - MULS

## **From application - MULS**

- "Energy and the Environment" (New)
- "Solar Energy Applications" (New)
- "Renewable Energy Resources utilisation" (New)
- "Energy Analysis and Modelling" and a lab for heat and mass measurements is used" (New)
- Green Building Design (Update)
- Renewable Energy Planning in Construction Industry of Mongolia (Update)

# Courses to be developed or updated - GMIT

## **From application - GMIT**

- Renewable energy and small scale energy production for buildings (New)
- Solar energy (New)
- Energy audit, Energy regulations and Energy management (New)
- Energy Economics and Market Development (New)
- Energy systems (Update)

# Proposed work until next meeting in Sept.

With **results from survey** and with original **application** as input:

- Discussions internally with the university administration and management plans and suggestions.
- Discuss with the partner universities (similar courses, ideas ..)
- Give **more elaborated suggestions for higher Education courses** from each university.
- Rough **time plan** for proposals, approval, admission and start of course.

BREAK 15 minutes

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## WP3 – Quality assurance plan (TalTech)

The Quality assurance process contents

- Creation of effective operational groups
- Student and teacher surveys after finishing each course

A Quality Assurance Plan shall be **elaborated by the Management Team** and discussed to be accepted by all consortia partners. It will be **monitored by the Management Team**, which will decide upon measures to be taken if quality problems occur.

**Annually quality reports** will be presented by the Management Team.

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# Economy

- First pre-payment done.
- Joint Declaration and Timesheet.

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## Any other Business

- GMIT – Who will be the main contact after November 1st.
- Situation in Mongolia – Traveling, visit ...
- Next meeting, Zoom-meeting in October 12
- ..

## Next steps

- More detailed content of new and updated courses.
- Equipment – what to buy and the connection to the separate course.
- LU send examples of course syllabus.
- Send Joint Declaration and Timesheet for the period 2020-01-15 to 2020-05-31. Next period 2020-06-01 to 2020-10-31.
- Send requested documents to Tallinn.

End of Meeting