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Course edition	1	Academic Year	2022/2023

Ref.	MBUILD10/ M25
MODULE	INTEGRATED PROJECT 2
ECTS	6
Year/Semester	Y1/S2
Class hours	4 h/week * 13 weeks = 52 h
Teaching location	THM, Giessen, Germany

1. OBJECTIVES

Application-oriented, life-oriented and self-directed learning, whereby the integrated project implies the active participation as well as application of the knowledge provided in the other modules and seminars. With the content learned in the different modules theoretical and practical knowledge is given.

- Students should now be able to
- Define and understand the problem
- Brainstorming for hypothesis generation
- Systematic order and evaluation of the hypotheses
- Objective formulation
- Investigate
- Applicate

2. LEARNING OUTCOMES AND COMPETENCES

- To apply the concept of "problem based-learning"
- To work in teams
- To fulfil a certain role similar to stakeholders in practice
- To integrate different aspects of the building and planning process in the project.
- To analyse the performance level of sustainable options in real case applications.

3. SYLLABUS/TOPICS

- 1. Sustainable Cities,
- 2. Thermal and Acoustic Comfort,
- 3. ICT for Construction Projects and BIM
- 4. Engineering Methods in Fire Protection
- 5. Detailed Design
- 6. Virtual Modelling
- 7. Design drawings/Management tools
- 8. Concurrence with the constructive process
- 9. Energy efficiency
- 10. Indoor environment efficiency
- 11. Fire Safety efficiency
- 12. Space modelling efficiency
- 13. Durability of Construction elements' efficiency
- 14. Overall efficiency of the requirements under Sustainable perspectives











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4. MANDATORY REFERENCES

Literature / Sources depending on the project

5. Additional References

• Other resources to be provided during the module, in connection with the way the research will be done.

6. ASSESSMENT TYPE

Distributed only (courseworks and activities developed during the semester)

7. ASSESSMENT COMPONENTS AND CALCULATION OF FINAL GRADE

7.1 Normal assessment (two opportunities)

The module will be assessed by:

 Exercises /courseworks, to be developed during the teaching period. Some of them will be in groups, some of them individuals. Details will be defined at the beginning of the classes by each lecturer.

	Nr	Weigh in the final grade	Minimum grade
Block 1: exercises /courseworks	1-10	75%	-
Block 2: exercises /courseworks	1-10	5%	-
Block 3: exercises /courseworks	1-10	5%	-
Block 4: exercises /courseworks	1-10	5%	-
Block 5: exercises /courseworks	1-10	5%	-
		100%	5.0 (0-10 UC scale)
			10.0 (0-20 UP scale)
			50.0 (0-100 THM scale)

7.2. Resit assessment

- No minimum grade is required in each specific exercise/coursework or in each block. If the final grade of the module is FAILED, then the student will choose a certain number of exercises/courseworks with the lowest grades of any block to resubmit them in order to increase the final grade of the module to obtain a PASS. In those cases where the original exercise/workshop was submitted in group or in pairs, the new submission will be carried out individually; in those cases, lecturer will adapt the exercise to accommodate the working effort for an individual submission.
- Deadline of the re-submission will be done, as latest, during the official resit period of the semester at THM.

8. TEACHING STAFF











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