

Computational Models for Embedded Systems

Laboratory Assignment 01

Assignment 1: Problem Statement



Theoretical aspects
Software for Sustainability



Assignment Objectives
Define your own SDG-based problem

Assignments
SDG (Sustainable Development Goals)
UBB Goes Green



Assignment 1. - UBB-Goes-Green – problem/solution

- Work in teams of 2-3 members.
- Task 01
 - SDG (Sustainable Development Goals) documentation (provided in the first week)
 - Read them all and select one
 - Read more about the challenges for that selected SDG
 - <https://sdgs.un.org/goals>
 - Tools
 - <https://knowsdgs.jrc.ec.europa.eu>
 - Write maximum 1 page on the selected SDG, challenges and solutions.
 - Green-metric
 - Read about the green-metric
 - <http://greenmetric.uj.ac.id>
 - Read UBBGoesGreen report on 2018/2021
 - <http://green.ubbcluj.ro/>
 - http://green.ubbcluj.ro/wp-content/uploads/Raport-de-dezvoltare-sustenabila_2018.pdf
 - https://green.ubbcluj.ro/wp-content/uploads/Raport-de-dezvoltare-durabila_2021.pdf
 - https://green.ubbcluj.ro/wp-content/uploads/Raport-de-dezvoltare-durabila_2022.pdf
 - <https://green.ubbcluj.ro/wp-content/uploads/Raport-de-dezvoltare-durabila-2023.pdf>
 - Write maximum 1 page on the selected university from the list, challenges and solutions in that university and also provide about strategies/solutions for improvement at UBB.
- Task 02
 - Create, based on your findings and provided solutions, the Problem Statement for your lab projects.
 - Actors and communications between them.

Turn in for Assignment 1.:



- (a) 1 Page on SDG
- (b) 1 Page on Green-Metrics and UBB improvements.
- (c) 1 Page with the Problem statement for your lab projects (in natural language).
- (d) An archive with all the above files must be submitted in Teams, under the Assignment 1 (the name of the archive: Name1Name2_Pb_1.zip)



Assignment and Delivery date for Assignment 1:

1. Assignment date: laboratory 1
2. Delivery date (first): laboratory 2 (maximal grade 300XP: 150 XP for Task 01 and 150 XP for Task 02).

Remark: You will need Assignment 1 for the next Assignments (Assignment 2 and Assignment 3).

3. Delivery date (last): laboratory 7 (maximal grade 300XP: 150 XP for Task 01 and 150 XP for Task 02).
Remark: The solutions must be presented in class (during lab hours).