BRIEFING

1. GENERAL AIM

Implement and test an interactive behavior in a robot

2. SPECIFIC GOALS

- i. Determine system requirements
- ii. Exploit the potential of robot's embodiment
- iii. Implement strategies to enrich communication
- iv. Proceed according to User Centered Design principles
- v. Consider interpersonal socials rules in communication and space management
- vi. Fix goal standards and its metrics.
- vii. Define an Evaluation Plan
- viii. Test the system
- ix. Recommendations for redesign

3. MAIN PARTS

A. Requirement Analysis

- i. Contexts analyses. Physical scenarios, social environment. Other identified constraints.
- ii. Target users' profile
- iii. Purpose
- iv. Activity
- v. Robot's behaviors (communication and motion)
- vi. Robot's cognitive skills
- B. Benchmarking. Evaluation of existing solutions. Pros and cons.

C. Description of the proposed solution

- i. Thorough description of the implementation and tests
- ii. Any decision must to be justified according to theoretical framework or previous works

4. TEAMS

- i. The students will work in groups of up to 3 students
- ii. Every student should know in depth and be able to explain and discuss any part of the Project

5. DELIVERY

- A. The files must be uploaded in the Campus Digital in ONE compressed file containing the following files in pdf (or similar) format:
 - i. Report
 - ii. Slides for the oral presentation
 - iii. Annexes

Any other support or way to deliver the material to be evaluated must be allowed by the course coordinator.

- B. The report must be written in DIN A4 vertical format.
- C. The organization of the content must follow this:
 - i. Index
 - ii. Abstract
- iii. System Requirements
- iv. Description
- v. Tests
- vi. Conclusions
- vii. References
- viii. Annexes

6. EVALUATION

- A. Students will be evaluated individually according to the quality of the report, the oral presentation and the performance during the discussion and the demo.
- B. Issues to be evaluated:
 - i. Report
 - Structure and organization of the report and other written outcomes (i.e. slides)
 - Text correctness and clearness
 - Relevance, extension and correct citation of references.
 - ii. Dissertation and discussion
 - All students should take part in the oral presentation
 - It is hardly recommended not to read during the presentation

- Communication skills and fluency will be evaluated
- The defense and further explanations during the discussion will be evaluated

iii. Demo

- The functionality of the behavior(s) implemented must be showed in a in vivo demonstration
- The acceptance of other outcomes such simulations or video-recorded performance must be discussed previously with the course coordinator

iv. Weighted evaluation

- Work Defense (30%)
- Final report (70%)
- Evaluation criteria:
 - Course contents
 - Experimental setup
 - Workload
- Demo