

COURSE: ADVANCED TOPICS IN ROBOTICS AND INTEGRATED MANUFACTURING

ASSIGNMENTS 2021/2022

SCOPE

Based on the Syllabus established for this year:

- 1) Select 4 units
- 2) For each Unit make a study, starting with the suggested literature and also finding other relevant sources, and establish a synthetic conceptual framework of the area – concepts, relationships, relevance, challenges, etc.
 - a. When searching for additional references, first define a set of criteria for identifying relevant references.
 - b. Filter references according to such criteria.
- 3) Prepare 1-2 pages synthesis per unit (thus 4-8 pages + 1 page with references & search criteria).
- 4) Prepare a presentation (40 min).

EVALUATION CRITERIA

The following aspects will be considered:

- Demonstration of the level of understanding of the area and capacity to structure, interlink and synthesize concepts, trends and challenges. [30%]
- Synthesis and critical spirit capabilities. [20%]
- Quality of identified bibliographic references and adopted search criteria. [10%]
- Identification of main players and research agenda in the area (main research groups and current hot topics). [7.%]
- Identification of the main journals and conferences related to the area, justifying the selection. [7.5%]
- Quality of the presentation and discussion. [25%]

TIMING

- The presentation seminar will take place in June / September 2022.
- The presentation will include 40 min presentation and 20 min discussion.
- Presentation slides shall be delivered to the involved professors at least 3 days in advance.
- All presentations (of all students) will take place in the same day.

Responsible professor: Luis M. Camarinha-Matos
Other professors involved: José Barata, Filipa Ferrada, André Rocha.