



Q1. Elaborate one example of research question and one example of hypothesis in your area of research.

[What is intended here is that you practice, not that you find a relevant research problem]
[Try to CAREFULLY formulate them according to the discussed rules]

11 Jan 2023

Q2. Consider the application of either the “traditional” scientific method or the design science research method to your work plan.

In this context, which strategy can you foresee to validate your thesis? How will you get validation data? Which validation approach?

Give details and be concrete.

[Focus ONLY on the validation step, do not describe all other steps]

11 Jan 2023

Q3. Searching on ISI SCI and SCIMAGO, identify 3 relevant journals in your area

(with simultaneously good impact factor SCI and quartile Q1 Scimago)

12 Jan 2023

Q4. Assume that you are a member of the Program Committee for a conference. As such, choose and evaluate one paper:

- <https://sites.google.com/a/uninova.pt/cam/Example-case2.pdf?attredirects=0&d=1>
- <https://sites.google.com/a/uninova.pt/cam/Example-case1.pdf?attredirects=0&d=1>

▪ **Evaluation form:**

<https://sites.google.com/a/uninova.pt/cam/docs/srmt-docs/ReviewForm.doc?attredirects=0&d=1>

12 Jan 2023

Q5. Multi-disciplinary research is becoming more and more important.

A) Identify 5 (potential) relevant benefits and 5 main risks of multi-disciplinary research.

B) What is the difference between interdisciplinarity and multi-disciplinarity?

C) Identify 3 benefits and 3 obstacles in collaboration university-industry.

13 Jan 2023

Q6. Identify 2 or 3 tools/platforms for developing a project portal.

- Define and justify your criteria for tools selection

(... Take into account the collaboration needs)

- Apply AHP to rank them.

[groups of 3 or 2 students]

16 Jan 2023

- Q7.** Using both ISI Web of Science / or SCOPUS and Scholar Google, verify the number of citations and h-index of
- Your supervisor
 - Another professor in the department
 - Another professor from University of Cardiff or University of Eindhoven
- 17 Jan 2023
- Q8.** Write a short survey paper (min 3, max 4 pages) on (choose one):
- Option 1:** the role of ethical issues regarding publication of results [see Unit 10]
- Option 2:** the impact of GDPR on research data [see Unit 10]
- Option 3:** how to prepare review meetings in an international research consortium [see Unit 8]
- focusing your area of research (i.e. electrical and computer engineering).**
- Consider the guidelines for writing survey papers studied in the course. [See Unit 3 & Unit 4]. **Use IEEE template format***
- 23 Jan 2023

- Q9. A.** Briefly describe the steps of “Environmental scanning”
- B.** Briefly describe the main steps of a roadmapping process.
- 18 Jan 2023
- Q10.** Briefly distinguish between IP protection and IP enforcement. Which mechanisms for each case?
- 19 Jan 2023
- Q11.** Group work: Preparation of project proposal for a H2020 ICT or H2020 Marie Curie or FCT
- 15 Feb 2023
17:00
(Lisbon time)