



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 formulate them according to the discussed rules]

12 Jan 2022

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? Give details and be concrete.

12 Jan 2022

Q3. Searching on ISI SCI and SCIMAGO, identify 3 relevant journals in your area (with simulatneously good impact factor and Q1)

13 Jan 2022

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>

13 Jan 2022

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

- A) Identify 5 relevant (potential) 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.

14 Jan 2022

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)
- Discuss their advantages and disadvantages in face of the needs of a research project management (prepare a comparative table).
- Apply AHP to rank them.

[groups of 3 or 2 students]

17 Jan 2022

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 Loughborough or University of Eindhoven

18 Jan 2022

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**

24 Jan 2022

Q9. Briefly distinguish between IP protection and IP enforcement. Which mechanisms for each case?

18 Jan 2022

Q10. A. Briefly describe the steps of “Environmental scanning”

B. Briefly describe the main steps of a roadmapping process.

20 Jan 2023

Q11. Group work: Preparation of project proposal for a H2020 ICT or H2020 Marie Curie or FCT

15 Feb 2022,
17:00 (Lisbon time)