

**RESEARCH METHODOLOGY AND SCIENTIFIC WRITING**

**COURSE PLAN**

**GRADUATE PROGRAM IN HEALTH SCIENCES**

**GRADUATE PROGRAM IN PHARMACEUTICAL SCIENCES**

**FAUBAI-FARA INTERNATIONAL PROGRAM**

**Credits: 2**

**Monthly Workload: 30 hours**

**PROFESSORS:**

Prof. André de Oliveira Baldoni - PhD

Prof. Renê Oliveira do Couto - PhD

Prof. Liliane Assis Sade – PhD

**ACADEMIC SEMESTER:** 2023.2

**Course Requirements:** no requirements needed.

**Higher Education Institution:** Federal University of São João del-Rei

**Acronym:** UFSJ

**Course name:** Research Methodology and Scientific Writing

**Code:** UFSJ001

**Monthly Workload:** 30h

**Day and Time of synchronous classes:** Fridays, from 10am to 12pm

**Places available:** 15

**Schedule and Content:**

<b>Synchronous Meetings</b>	<b>Teacher in charge</b>	<b>Content</b>
1 – 25/08/2023	André Liliane Renê	<ul style="list-style-type: none"><li>• Institutional Presentation.</li><li>• General presentation of the course: work methodology, assessment criteria and expected outcomes.</li><li>• Scientific databases.</li><li>• Search strategies in scientific databases</li><li>• Search Boolean operators and Descriptors (MeSH).</li><li>• Conceptual aspects of systematic review, narrative review, and scope review.</li><li>• Introductory aspects of epidemiological designs.</li></ul>
2 – 01/09/2023	Liliane	<ul style="list-style-type: none"><li>• How to write an abstract.</li></ul>
3 – 15/09/2023	André Renê	<ul style="list-style-type: none"><li>• How to write a Project / Scientific Article</li><li>• Reporting guidelines for main study types.</li></ul>
4 – 22/09/2023	André Renê Liliane	<ul style="list-style-type: none"><li>• How to write a Project/ Scientific Article (part II).</li><li>• What is and what are the types of academic plagiarism.</li><li>• Ethical aspects of scientific research.</li><li>• How to make citations.</li></ul>
5 – 29/09/2023	Liliane	<ul style="list-style-type: none"><li>• Appropriate language for scientific writing.</li></ul>
6 – 06/10/2023	Renê	<ul style="list-style-type: none"><li>• Systematic Review.</li></ul>
7 – 20/10/2023	Renê, André e Liliane	<ul style="list-style-type: none"><li>• Seminar: Systematic reviews PRISMA</li></ul>
8 – 27/10/2023	Renê, André e Liliane	<ul style="list-style-type: none"><li>• Seminar: Animal pre-clinical studies ARRIVE</li></ul>
9 – 10/11/2023	Renê,	<ul style="list-style-type: none"><li>• Seminar: Randomised trials CONSORT</li></ul>

	André e Liliane	
10 – 17/11/2023	Renê, André e Liliane	<ul style="list-style-type: none"> <li>• Seminar: Observational studies STROBE – cross sectional</li> <li>• Seminar: Observational studies STROBE – coorte</li> </ul>
11 – 24/11/2023	Renê, André, Liliane	<ul style="list-style-type: none"> <li>• Seminar: Observational studies STROBE – case-control</li> </ul>
12 - 01/12/2023	Renê, André, Liliane	<ul style="list-style-type: none"> <li>• Seminar: Case reports CARE</li> </ul>
13 – 08/12/2023		<ul style="list-style-type: none"> <li>• Extra class activities.</li> </ul>
14 - 15/12/2023	Renê, André, Liliane	<ul style="list-style-type: none"> <li>• Seminar: Qualitative research SRQR COREQ</li> </ul>
15 – 18/12/2023	Liliane, André, Renê	<ul style="list-style-type: none"> <li>• Closing, feedback and replacement class (if necessary).</li> </ul>

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Observation: There will be extra-class activities.

#### **ASSESSMENT CRITERIA:**

- 1) Project Summary – 20% (Teacher in charge of evaluation: Liliane)
- 2) Presentation of a Search methodology tool - 20% (Teacher in charge of evaluation: Renê)
- 3) Seminar Presentation, using an article and Reporting guidelines for main study types - 40% (Teachers in charge of evaluation: André and Renê).
- 4) Participation in class and in the debates (20%)

#### **V – REFERENCES:**

Reporting guidelines for main study types: <http://www.equator-etwork.org/>.

**CONTENT:**

1. Searching Strategies in scientific databases
2. Search Boolean operators and Descriptors (MeSH)
3. Conceptual aspects of systematic, narrative, and scope reviews.
4. Introductory aspects of epidemiological designs
5. How to write an Abstract
6. How to write a scientific project/article?
7. What is and what are the types of academic plagiarism?
8. Ethical Aspects of Scientific Research
9. How to make citations
10. Appropriate language for scientific writing
11. Reporting guidelines for main study types
12. Systematic reviews PRISMA
13. Animal pre-clinical studies ARRIVE
14. Randomised trials CONSORT
15. Observational studies STROBE – cross sectional
16. Observational studies STROBE – coorte
17. Observational studies STROBE – case-control
18. Case reports CARE
19. Qualitative research SRQR COREQ