

Course Title: Scientific Writing for Publication

Course Description:

The Scientific Writing for Publication course is designed to equip students with the necessary skills and knowledge to communicate scientific research findings through written publications effectively. The course will cover various aspects of scientific writing, including structuring manuscripts, crafting clear and concise language, adhering to journal guidelines, and understanding the peer review process. Through lectures, workshops, assignments, and peer reviews, students will develop the ability to produce high-quality research papers suitable for publication in reputable scientific journals.

Course Duration: 16 weeks

Prerequisites: Basic understanding of scientific research methods and familiarity with academic writing conventions.

Course Objectives:

By the end of the course, students should be able to:

- Understand the critical elements of effective scientific writing and its importance in the research community.
- Comprehend the structure and components of a research manuscript, including title, abstract, introduction, methods, results, discussion, and references.
- Develop skills in crafting clear, concise, and coherent sentences and paragraphs.
- Identify and apply appropriate language conventions for scientific writing, including verb tense, voice, and tone.
- Select suitable journals for publication and understand their specific formatting and citation requirements.
- Recognize ethical considerations in scientific writing, such as plagiarism and proper attribution.
- Navigate the peer review process, including responding to reviewers' feedback and revising manuscripts.
- Enhance collaboration and communication skills by engaging in peer reviews and providing constructive feedback to colleagues.

Course Outline:

Week 1-2: Introduction to Scientific Writing

Importance of effective scientific communication

Understanding the target audience and their expectations

Differences between research a

Articles, reviews, and other publication types

Ref:

(Azizah & Budiman, 2017; Lathif et al., 2021; Nabhan, 2021; Rinekso et al., 2021)

(Arianto et al., 2021; Arianto & Basthomi, 2021; Arsyad et al., 2019; Arsyad & Zainil, 2023)

Week 3-4: Manuscript Structure and Organization

Title, abstract, keywords: Creating a compelling first impression

Introduction: Framing the research question and providing context

Methods: Describing the study design, materials, and procedures

(Fadhly et al., 2023; Fajrina et al., 2022; Salih et al., 2014; Zein et al., 2023)

Week 5-6: Reporting Results and Data Interpretation

Results: Presenting findings through text, tables, and figures

Discussion: Interpreting results, addressing limitations, and proposing future directions

(Alharbi, 2021; Prasojo et al., 2020; Ramdani et al., 2022; Turmudi et al., 2020)

Week 7-8: Language and Style in Scientific Writing

Achieving clarity, conciseness, and coherence

Appropriate use of verb tense, active/passive voice, and technical terminology

(Mahendra & Dewi, 2017; Rustipa et al., 2023; Sanosi, 2022; Tambunan et al., 2022; Wahyuningsih, 2021; Yuliani et al., 2023)

Week 9-10: Journal Selection and Formatting

Choosing the right journal for your research

Understanding journal guidelines and formatting requirements

(Jomaa & Bidin, 2017; Marzuki et al., 2023; Rezeki, 2018; Umamah & Cahyono, 2022)

Week 11: Ethical Considerations in Scientific Writing

Plagiarism, proper citation, and referencing

Authorship guidelines and conflict of interest disclosures

(Alua et al., 2023; Arabyat et al., 2022; Baldarelli et al., 2022; Patak et al., 2022; Paterson, 2020)

Week 12: Peer Review Process and Revision

Understanding the peer review system

Responding to reviewer feedback and revising manuscripts

Collaborative peer review exercises

(Gain et al., 2019; Guo et al., 2022; Wang & Qin, 2022; Yousofi, 2022)

Week 13-16: Writing Practices and Submission

Assessment Methods:

Written assignments: Manuscript drafting and revising exercises

Peer reviews: Providing constructive feedback on classmates' drafts

Quizzes and tests: Assessing understanding of course material

Final research paper: A polished manuscript ready for submission to a scientific journal

Recommended Textbook:

References:

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- Azizah, U. A., & Budiman, A. (2017). Challenges in Writing Academic Papers for International Publication Among Indonesian Graduates Students. *JEELS (Journal of English Education and Linguistics Studies)*, 4(2), Article 2. <https://doi.org/10.30762/jeels.v4i2.405>
- Baldarelli, B., Trescher, K., Treffer, A., & Jakobs, L. (2022). Learning How to Avoid Plagiarism: A New Approach in Information Literacy Sessions for Computer Science and Engineering Students. *Communications in Computer and Information Science*, 1533 CCIS, 543–557. Scopus. https://doi.org/10.1007/978-3-030-99885-1_45
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- Fajrina, D., Everatt, J., & Sadeghi, A. (2022). Rhetorical pattern of the Indonesian EFL undergraduate students' writings. *Studies in English Language and Education*, 9(1), Article 1. <https://doi.org/10.24815/siele.v9i1.13640>
- Gain, A., Rao, M., & Bhat, K. S. (2019). Usage of grammarly - online grammar and spelling checker tool at the health sciences library, Manipal Academy of Higher Education, Manipal: A Study. *Library Philosophy and Practice*, 2019. Scopus.
- Guo, Q., Feng, R., & Hua, Y. (2022). How effectively can EFL students use automated written corrective feedback (AWCF) in research writing? *Computer Assisted Language Learning*, 35(9), 2312–2331. Scopus. <https://doi.org/10.1080/09588221.2021.1879161>
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