

**Faculty of Mechanics and Mathematics
Department Mathematical Modelling and Simulation**

**PROGRAM of "ACADEMIC WRITING"
Final exam
for the specialty " Mathematical Modelling and Simulation "
(fall semester, 2021/2022)**

Almaty 2021

DEVELOPED:

ABDIBEKOV UALIKHAN CEIDILDAEVICH - professor

1. Introduction. Motivations for writing and publishing a science paper. The Literature Search. Plan and Execute Research with Publication in Mind
2. The Standard Structure of a Scientific Paper: Introduction; Method; Results and Discussion; Conclusions .
3. The Scientific Style: Truth; Presentation; Scene; Cast ; Thought and language .
4. Writing in the Scientific Style. Acronyms.
5. The Goals of Using Figures .Errors in Graphs. Graphical Integrity.
6. Guidelines for good graphics.The x - y scatterplot. Figure Quality from a Production Standpoint. Tables
7. The Five Goals of Citations . The Literature Search. Problems with Citations. Self-Citations .
8. Writing an Abstract . Structured Abstracts. Important Additional Thoughts on Abstracts.

9. Titles. Keywords.
10. **What an Editor Looks For.** Scope. Quality. Novelty . Significance .
11. Significance: Measuring significance. Null (negative) result.
12. **Picking the Right Journal.** The Specialization Spectrum. Reading in the Age of Search Engines . Avoiding the Wrong Journal
13. **Submitting a Paper for Publication and the Publishing Process.** Choice of Journal. Impact factor (Из Media_41223_smxx.pdf Chapter 4)
14. **Submitting a Paper for Publication and the Publishing Process.** Presentation of your paper. Abstract. Submission. Permissions (Из Media_41223_smxx.pdf Chapter 4)
15. **Submitting a Paper for Publication and the Publishing Process.** Peer review and manuscript management. Acceptance to Publish and Copyright. (Из Media_41223_smxx.pdf Chapter 4)
16. **Submitting a Paper for Publication and the Publishing Process.** Print and Online Production. Postprint Policy and Institutional Repositories. Essay prizes(Из Media_41223_smxx.pdf Chapter 4)
17. **Cover Letter.** Purpose of the Cover Letter. A Structured Cover Letter
18. **The Editorial Review Process.** The Goals of Peer Review. Characteristics of a Well-Done Review.
19. **The Editorial Review Process.** The Peer-Review Process at a Journal .
20. **The Editorial Review Process.** Responsibilities of each participant in the peer-review process. Criticisms of the Peer-Review Process.
21. **Review Articles.** What is a Review Article? Structure of a Review Article. What Makes a Review Article “Good”?
22. **The Ethics of Scientific Publication.** The Primary Ethic of Scientific Publication. Author Responsibilities before Publication.
23. **The Ethics of Scientific Publication.** Responsibilities during the Peer-Review Process. Author Responsibilities after Publication
24. **Authorship.** Defining Authorship.
25. **Authorship.** Guest author or Ghosts author. Acknowledgments. Author Order. Authorship within Journal.
26. **Plagiarism.** Copying Another’s Ideas. Copying Another’s Images. Copying Another’s Words.

27. **Plagiarism.** Duplicate Publication, or Self-Plagiarism . Cultural Issues
28. **Double Publication.** Something Old, Something New . The Role of Conference Proceedings.
29. **Editorial Ethics.** Editors' Responsibilities.
30. Turning your coursework into articles. How do articles differ from coursework? (И3 Media_41223_smxx.pdf Chapter 3)

1. How to Write a Good Scientific Paper, Bellingham, Washington USA, Chris A. Mack
2. Writing for Scholarly Journals Publishing in the Arts, Humanities and Social Sciences Edited by Daniel. P. J. Soule, Lucy Whiteley, and Shona McIntosh © eSharp 2007

CONSIDERED and APPROVED
at the meeting of the department from " " 2021, protocol №