



The Islamia University of Bahawalpur

DEPARTMENT OF CHEMISTRY

Course Title: Technical and Scientific Writing
Class: BS Semester-IV

Course Code: ENGL-03402
Course Instructor: Dr. Khezina Rafiq
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Major topics to be covered (Week-wise)

Week	Topic	Content
1	Structure of a Paper	Introduction to Components of a Paper, Author listing, Title, Abstract, Introduction, Methods, Results, Discussion/Conclusions, References
2	Structure of a Paper	Styles of References (Harvard & Vancouver), Article Submission, Journal Selection, After submission, Overview of Peer Review Process
3	Peer Review and Publishing	Purpose of review, Advantages and Disadvantages, Publishing tips
4	Introduction to Technical and Scientific Writing	What is Technical Writing, Technical versus Creative Writing, Art of Scientific Writing, Type, Particular emphasis on Research Article.
5	Global View of Publications	Fact and Figures on International Research Publications, Thomson Reuters List, High Impact Journals, What is impact factor (IF), Highest impact factor Journal list
6	Publishing in upper tier journals	What is H-index/Hirsch-number? E-journals vs. Print Journals, Importance of publishing in High impact journals, Attributes of a good manuscript
7	Research Paradigm	Significance of publishing, Deciding journal, Importance of citations, Peer review process, Key to a Good Writing
8	Research Paradigm	The importance of Title, Styles of Titles, Skeleton of an Article (AIMRaD),
9		Mid Term Examination
10	Components of an Article	Detailed view of Introduction, Material & methods, Results and Discussion, Conclusion
11	Components of an Article	ACS style Reference citation, Acknowledgement, Revision and Proofreading, Responsibilities of Author
12	Preparation of Manuscripts to Submission	Criteria for Acceptance/Rejection, Process of Research and Publication
13	Ethics in Scientific Writing	Do's and Don't's in Scientific Writing
14	Article Reading	Example of an unstructured article (e.g. Communication)

15	Article Reading	Example of a structured article (i.e. AIMRaD)
16		Class Presentation
17		Class Presentation
18		Final term Examination

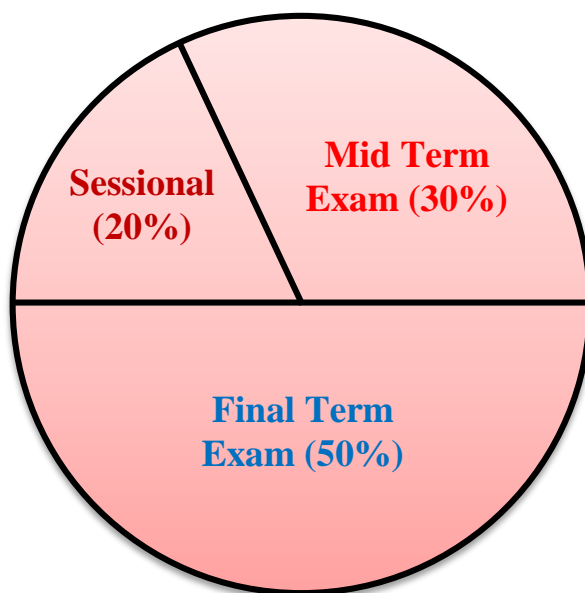
Reference Book

1. Writing Scientific Research Articles, Strategy and Steps by Margaret Cargill & Patrick O'Connor; 1st ed. 2009; John Wiley & Sons, Inc.

Recommended Articles

2. Turbek, S.P. et al., Scientific Writing Made Easy: A Step-by-Step Guide to Undergraduate Writing in the Biological Sciences, Bulletin of the Ecological Society of America, 97(4), 417-426.
3. Peh WCG & Ng KH, Writing a technical note, Singapore Medical Journal, 2010; 51(2), 101-103.

Assessment Methodology



Note: Sessional marks include 10% for presentations/assignments and 10% for attendance.