



GUJARAT TECHNOLOGICAL UNIVERSITY
Integrated Master of Science (Biotechnology)

Semester: 6

Subject Name: Technical Writing

Subject Code: 1360406

Prerequisite: To undertake the Technical Writing course, students must be enrolled in the undergraduate program and have successfully completed introductory courses in communication skills or relevant writing modules.

Rationale: The Technical Writing course bridges the gap between academic learning and professional communication. It equips students with essential skills to create clear, effective, and professional documents, preparing them to address real-world challenges and excel in their chosen careers.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	PA (I)	ESE (V)		
0	0	4	2	0	0	50	0	50

Course Content:

Sr. No.	Course Content	No. of Hours	% of Weightage
1	Introduction to Technical Writing: Reports: Technical Papers, Book, Chapters, Manuals, Posters.	5	17
2	Structure of Technical Documents: Components of a Technical Document, Best Practices for Document Layout.	5	17
3	Copyright and Legal Issues: Copyright Considerations in Technical Writing, Existing Laws and Open Sources, Permission Procedures.	5	17
4	Writing and Citing Techniques: How to Write a Good Technical Paper, Proper Procedures in Citing Published Works, Referencing Styles.	5	16
5	Language and Style in Scientific Documents: Common Mistakes in English in Scientific Documents, Proper Way of Writing and Citing Equations, Proper Use of Figures and Tables.	5	16
6	Specialized Writing: Writing a Good Review Paper, Writing Abstracts, Synopses, Cover Letters, Responses, Discussions, and Keywords.	5	17

Assessment Criteria:

Student evaluation in this course will be based on a combination of written assignments, class participation, and a final project. Assignments will include writing abstracts, research papers, and technical reports to assess students' ability to convey scientific concepts clearly and accurately. Class participation in peer reviews and discussions will gauge their engagement with the material and collaborative skills. The final project will require students to produce a comprehensive



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document, such as a research paper or grant proposal, demonstrating their mastery of technical writing principles. Regular feedback will help students improve throughout the course.

Conclusion:

The Technical Writing aims to develop students' analytical, writing, and research skills. It serves as a platform to apply theoretical knowledge to practical challenges, preparing students for academic and professional success. All projects and reports will be archived for future academic and research purposes.

Course Outcome:

After Completion of the Course, Student will be able to:

No	Course Outcomes	RBT Level
1	Learn the principles and techniques of technical writing	RM
2	Understand the elements of effective communication and documentation	UN
3	Analyze information and data to draw meaningful insights for documentation	AN
4	Apply theoretical knowledge and writing techniques to create clear and impactful technical documents	AP

*RM: Remember, UN: Understand, AP: Apply, AN: Analyze, EL: Evaluate, CR: Create
