

Title of Subject: **Technical & Scientific Writing**
 Code : ENG-301
 Discipline : 5th Semester, 6th Semester
 Effective : 21 Batch and onwards
 Assessment : 10% Sessional, 40% Written Semester Examination (10% Mid, 30% Final)
 Credit Hours : 02 + 00 **Marks: 50 + 00**

Course Learning Outcomes:

After completing the 'Technical and Scientific Writing' course, each student will be able to:

CLO No.	Description	Taxonomy Level	Linking to PLOs
CLO-1	Analyse the content and structure of various technical and academic research documents e.g., dissertations, research papers or articles, proceeding papers and research review papers.	C-4	PLO-10
CLO-2	Create various writing genres such as: research reports, research articles, research	C-6	PLO-10

Contents:

Module 1: Basics of Technical Writing

- Introduction to Technical writing and communication,
- Rationale/Characteristics/Features of Technical Writing compared to other forms of writing.
- Types of technical documents

Module 2: Introduction to Writing Process

- Technical Writing Process: Pre-writing, Writing & Revising (Demonstration & Illustration)
- Context & technical writing
- Implicit vs Explicit features of writing/ Text
- Legal & Ethical communication in technical writing

Module 3: Writing a Technical Document

- Researching, organizing, and composing the content
- Revising, proofreading, and evaluating
- Elements of a technical document

Module 4: Research Writing-I

- Academic & Scientific Language: Word to Sentence & Sentences to Paragraph
- Research writing format, citation & referencing
- Annotation, paraphrasing, quotation, and Summarization

Module 5: Research Writing-II

- Abstract Writing
- Research Proposal Writing
- Research Paper Writing
- Research Review Paper Writing

Module 6: Organizational Technical Correspondence

- Formal Technical Report Writing, Internship report, Project report writing

Recommended Books & Readings:

1. Perelman, L. C., J. Paradis, and E. Barrett. *Mayfield Handbook of Technical and Scientific Writing*, Mountain View, Mayfield, 1997
2. Sharma, S. D. *A Text Book of Scientific and Technical Communication Writing for Engineers and Professionals*. Sarup & Sons, 2007.
3. Glasman, Hilary. *Science research writing: For non-native speakers of English*. Imperial College Press: London, UK, 2010.
4. Van Aken, David C., and William F. Hosford. *Reporting Results*. Cambridge University Press, 2008.
5. Alred, Gerald J., Charles T. Brusaw, and Walter E. Oliu. *Handbook of technical writing*. Macmillan, 2009.

Approval:

Board of Studies, ELDC
 Board of Faculty (FoST&H)
 Academic Council

Res. No.1

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