Year: M. Tech. I (Semester – II)

Subject Name: Effective Technical Communication **Subject Code:** MTCO10201
Type of course: Humanities and Social Sciences including Management
Prerequisite (if any): --

List of Courses where this course will be prerequisite: --

Rationale: The rationale of the curriculum is to help students learn technical communication along with necessary moral and ethical dimensions of engineering.

Teaching and Examination Scheme:

Teaching Scheme				Theory Marks			Practical Marks		Total
L	T	P	C	TEE	CA1	CA2	TEP	CA3	
2	0	0	2	60	25	15	0	0	100

CA1: Continuous Assessment (assignments/projects/open book tests/closed book tests. CA2: Sincerity in attending classes/class tests/ timely submissions of assignments/self-learning attitude/solving advanced problems TEE: Term End Examination TEP: Term End Practical Exam (Performance and viva on practical skills learned in course) CA3: Regular submission of Lab work/Quality of work submitted/Active participation in lab sessions/viva on practical skills learned in course

Content:

Sr.No.	Content	Total Hrs
1	Writing Skills – Part I: Planning and Preparation, Structuring Sentence, Structuring Paragraphs, Breaking up Long Sentences, Being Concise and Removing Redundancy, Avoiding Ambiguity and Vagueness	7
2	Writing Skills – Part II: Clarifying Who Did What, Highlighting Your Findings, Discussing Your Limitations, Hedging and Criticizing, Plagiarism and Paraphrasing	5
3	Structure of the Paper – Part I: Titles, Abstract, Introduction, Review of the Literature, Methods	6

4	Structure of the Paper – Part II: Results, Discussion, Conclusions, The Final Check	4
5	Proofreading, Formatting, Learning Latex for handling different types of documents, organizing documents into different sections, subsections, formatting pages and text, write complex mathematical formulae, include tables and images, cross-referencing, bibliography, and Indexing, creating conference style presentations using Beamer	8

Reference Books:

Sr.No.	Title of book /article	Author(s)	Publisher and details like ISBN	Year of publication	Publication Edition
1	Writing for Science	Goldbort R	Yale University Press (available on Google Books)	2006	1
2	How to Write and Publish a Scientific Paper	Day R	Cambridge University Press	2006	1
3	English for Writing Research Papers,	Adrian Wallwork	Springer	2011	1
4	Latex Beginner's Guide: Create high-quality, professional-looking documents and books for business and science	Stefan Kottwitz	Packt Publishing	2011	1

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Understand how to improve your writing skills and level of readability.	20%
CO-2	Learn about what to write in each section of a research paper and a technical report.	25%

CO-3	Ensure the good quality of paper at very first-time submission.	30%
CO-4	Formatting your manuscript with the Latex tool.	25%

List of Open learning: https://www.coursera.org/specializations/english-for-research-publication-purposes

List of Open Source Software: LateX