

<b>INSTITUTE</b>	<b>FACULTY OF TECHNOLOGY</b>
<b>PROGRAM</b>	<b>MASTER OF TECHNOLOGY in CHEMICAL ENGINEERING</b>
<b>SEMESTER</b>	<b>2</b>
<b>COURSE TITLE</b>	<b>ENGLISH FOR TECHNICAL WRITING</b>
<b>COURSE CODE</b>	<b>01AU9001</b>
<b>COURSE CREDITS</b>	<b>0</b>

**Objective:**

- 1 To apply the basic knowledge of English writing and research.
- 2 To ensure the English quality of paper before its submission in scientific journals
- 3 The objective of this course is to improve the linguistic proficiency of a manuscript prior to its submission in scholarly journals to ensure its adherence to the standards of academic communication in the field of engineering.
- 4 To impart necessary language skills to students to improve the linguistic proficiency of a manuscript prior to its submission in scholarly journals
- 5 To generate awareness among students to ensure manuscript's adherence to the standards of academic communication in the field of engineering

**Course Outcomes:** After completion of this course, student will be able to:

- 1 Understand the relevance of English in technical paper writing
- 2 Develop wide writing patterns to increase the readability and understanding of papers
- 3 Give inputs in sectional writing and enhancing the quality of reported work
- 4 Understand the relevance of developing a catchy title

**Pre-requisite of course:** Basic knowledge of English writing and research.

**Teaching and Examination Scheme**

<b>Theory Hours</b>	<b>Tutorial Hours</b>	<b>Practical Hours</b>	<b>ESE</b>	<b>IA</b>	<b>CSE</b>	<b>Viva</b>	<b>Term Work</b>
2	0	0	0	0	0	50	50

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Introduction</b> Importance of report writing in academics and research. Various kinds of academic and research activities., Necessity of report writing for achievement of academic and research goals., Various kinds of reports / presentations. Characteristics of academic and research reports / presentations. Conclusions.	6

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
2	<b>Research paper writing</b> Types of research papers, Structure of research papers, , Research paper formats, Abstract writing, Methodology, , Results and discussions, Different formats for referencing, Ways of communicating a research paper.	7
3	<b>Thesis writing</b> Structure of a thesis, Scope of the work, Literature review,, Experimental / computational details, Preliminary studies, Results and Discussions, Figures and Tables preparation, Conclusions and future works, Bibliography, Appendices.	8
4	<b>Tools and Techniques</b> Various word processors, e.g, MS Word, Libra-office, Latex etc. , Making effective presentations using Power Point and Beamer,, Uses of plagiarism detection tools.	7
<b>Total Hours</b>		<b>28</b>

#### **Textbook :**

- 1 A Step-by-Step Guide to Writing Academic Papers, Anne Whitaker, Anne Whitaker, 2009

#### **References:**

- 1 On Writing a Thesis, On Writing a Thesis, C P Ravikumar, IETE Journal of Education, 2000
- 2 Essential LATEX ++, Jon Warbrick with additions, Essential LATEX ++, Jon Warbrick with additions, David Carlisle, Michel Goossens, Sebastian Rahtz, Adrian Clark January, .. 1994

#### **Suggested Theory Distribution:**

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
<b>Remember / Knowledge</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Higher order Thinking / Creative</b>
25.00	25.00	30.00	15.00	5.00	0.00

#### **Instructional Method:**

- 1 The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by white board, may also use any of tools such2 as collaborative learning, demonstration, role play, Quiz, brainstorming, MOOCs, Active Learning Assignments etc.
- 2 The internal evaluation will be done on the basis of continuous evaluation of students in the laboratory and class-room.

**Instructional Method:**

- 3 Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.
- 4 Students will use supplementary resources such as online videos, Virtual Laboratory NPTEL videos, e- courses.

**Supplementary Resources:**

- 1 <https://swayam.gov.in/>
- 2 <https://epgp.inflibnet.ac.in/>