Subject Code: 01AU9001

Subject Name: English for Technical Writing

Objective: Ensure the English quality of paper before its submission in scientific journals

Course Outcomes: Students will be able to:

1. Understand the relevance of English in technical paper writing
2. Apply the learning during thesis and research paper writing.
3. Develop wide writing patterns to increase the readability and understanding of papers
4. Give inputs in sectional writing and enhancing the quality of reported work

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

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE	IA	CSE	Viva (V)	Term work (TW)	
2	0	0	0	0	0	0	50	50	100

Contents:

Unit	Topics	Contact Hours
1	**Introduction** 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**
2	**Research paper writing** 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.	**6**
3	**Thesis writing** 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	**Tools and Techniques** Various word processors, e.g, MS Word, Libra-office, Latex etc. Making effective presentations using Power Point and Beamer, Uses of plagiarism detection tools.	**6**
	Total Hours	**26**

BOOKS AND REFERENCES

1. A Step-by-Step Guide to Writing Academic Papers, by Anne Whitaker September 2009
2. On Writing a Thesis by C P Ravikumar, IETE Journal of Education, 2000
3. LATEX for Beginners, Edition 5, March 2014 Document Reference: 3722-2014
4. Essential LATEX ++, Jon Warbrick with additions by 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					
Remember	Understand	Apply	Analyze	Evaluate	Create
25%	25%	30%	15%	5%	-

Instructional Method

a. 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.

b. The internal evaluation will be done on the basis of continuous evaluation of students in the laboratory and class-room.

c. Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.

d. Students will use supplementary resources such as online videos, Virtual Laboratory NPTEL videos, e- courses.