

**Course description:**

Nature, types, levels and style of technical writing: Common errors in usage. Formal, informal and laboratory reports. Selection and presentation of graphic aids. Research methodology and types of scientific research outputs.

The level of the course is to be supplemented by using real-world projects and available materials and resources.

This course aims at attainment of scientific writing skills. Topics include evaluating writing common mistakes and noise, application on writing guidelines and specification of general technical engineering documents. Presentation skills are explained and applied in this course.

Aims of the course:

1. Report writing for scientific research and technical. Research of data, scientific citation and referencing, textual, Table, Figure formatting.
2. Oral presentation Skills
3. Resume and cover letter writing to get an engineering job.

Intended Learning Outcomes (ILOs):

- 1) **Remember level- ability to define, describe, state, locate principles, laws, and methods of noise free scientific & technical writing.** *Perform an article reading, web, or library research.*
- 2) **Understand level- ability to illustrate, explain, summarize their communication intention and consequences for lean & streamline objectives.** *Perform literature search.* **Evaluate Skills - with ability to compare and contrast statistics models and areas of application within an engineering context. Evaluate results against ethics consideration.**
- 3) **Apply level- ability to apply principles, rules, and method of format in writing**
- 4) **Analyze level- ability to Be able to research scientific & technical information. Skills of presenting Tables, Charts, and Graphs..** *Produce data tables, charts, and graphs.*
- 5) **Evaluate level- ability to compare, judge, criticize, contrast peer writing against noise and Ethics.** *Perform group discussion, editorial, or assessment.*
- 6) **Create level- ability to Design an email, letter, report, and presentation.** *Develop syllogism, & an article/report.*

Course structures:

Week	C. Hrs	ILOs	Topics	Teaching Procedure	Assessment methods
Week 1 26/2/2017		3	Syllabus, Course Schedule; Chapter 1: engineers and writing.	PPT. lecture	

Week 2-3 5 &12/3 /20175	2	Chapters: 8, 4& 10.	PPT. lecture	Test 1_ 10/4/2016 Task 1 issued
Week 4-7 19&26 /3/2- 17 +2&9/ 4/2017	1	Chapters: 9, 11, 7, 5& 6. Mid Exam on Sunday W7: 16/4/2017 on Chapters 1, 4, 5, 6, 7, 8, 9, 10&11.	PPT. lecture	Task 2 issued Task 3 issued
Week 8-10	1+ 3+4	Chapter 3 Guidelines for Good Engineering Writing.	PPT. lecture	Test 2_ 2852/2017 Task 4 issued Task 5-6 issued
Week 11-15		Chapter 2- Eliminating Sporadic Noise in Writing		Task 7-10 issued

References:

“A guide to writing as an engineer” by: David Beer and David McMurrey, 4th Edition, John Wiley & sons, 2014.

Assessment Methods:

Methods	Grade	Date
Assigned Tasks	10	Weekly
Project	10	term
Midterm Exam	30	28/4/2017
Final Exam	50	

