

Course Number: **HS541**

Course Title: **Technical Communication**

Credit: **1-0-0-1**

Prerequisites: **None**

Students intended for: **M.S/M.Tech/Ph.D/M.Sc**

Elective or Compulsory: **Elective/Core**

Semester: **Odd/Even**

Preamble : Students in general and graduate students in particular are required to share and communicate their academic activities both in written and oral form to their peers and reviewers for their comments and review. The duration of these presentation may vary from from few minutes to few hours. The audience may be homogeneous or heterogeneous. This course intends to help students to learn the art of communication in these areas.

Objectives : The course objectives include facilitate learning the skill of preparing poster presentations, slides, abstracts, reports, papers and thesis and their oral presentations through lectures, examples an practices in class. Students are expected to learn structuring of these academic activity and time allotment for each sub-elements of the structure of oral presentations.

Major topics

- Review of appropriate and correct use of articles, adjectives and adverbs, active and passive voices, affirmative sentences, sentences with positive and negative connotations and presentation styles. Examples and class exercise [3 lectures]
- Poster preparation and presentation in conferences [2 lectures]
- Research article for conference and journal and slides for their presentations [4 lectures]
- Thesis and/or book [3 lectures]
- Job interviews [2 lectures]

Reference

Perelman, Leslie C., and Edward Barrett. *The Mayfield Handbook of Scientific and Technical Writing*. New York, NY: McGraw-Hill, 2003. ISBN: 9781559346474.

General Resources

Carson, Rachel. "The Obligation to Endure," chapter 2 in *Silent Spring*. 104th anniversary ed. New York, NY: Mariner Books, 2002. ISBN: 9780618249060. (Originally published in 1962. Any edition will do.)

Day, Robert A., and Barbara Gastel. *How to Write and Publish a Scientific Paper*. 6th ed. Westport, CT: Greenwood Press, 2006. ISBN: 9780313330407.

---. *Scientific English: A Guide for Scientists and Other Professionals*. 2nd ed. Phoenix, AZ: Oryx Press, 1995. ISBN: 978-0897749893.

Hacker, Diana. *A Pocket Style Manual*. 4th spiral ed. New York, NY: Bedford/St. Martin's, 1999. ISBN: 9780312406844.

Jackson, Ian C. *Honor in Science*. Sigma Xi, The Scientific Research Society, Research Triangle Park, N. C., 1992.

Klotz, Irving M. *Diamond Dealers and Feather Merchants: Tales from the Sciences*. Boston: Birkhauser, 1986.