



VAC Headings

1. **Duration of Course:** 30 hours
 2. **Target Participants:** All graduates
 3. **Course Contents:** Enclosed
 4. **Course Fee:** 500/- per participant
 5. **Method of Conducting the Course:**
 - Didactic lectures – 10 hours
 - Hands on training and assessment – 20 hours
 6. **Scheme of Examination:**
 - Completion of 2 assignments
 - Multiple choice questions to evaluate the knowledge at the end of the course.
- Note:** The certificate will be provided only to those candidates who have secured more than 60% marks.
7. **Feedback:** Online Google Form
 8. **Criteria for Completion:** The student must have attended at least 80% of the lectures and have secured more than 60% marks in the assignments and MCQ exams.



SCIENTIFIC WRITING

Resource Person: Dr. Ravi Kumar Singh Pippal

Course Objectives:

- This course aims to demystify the writing process and teach the fundamentals of effective scientific writing.
- Instruction will focus primarily on the process of writing and publishing scientific manuscripts but grant writing will also be addressed.
- The course will be presented in two segments: Part (1) teaches students how to write effectively, concisely, and clearly and part (2) takes them through the preparation of an actual scientific manuscript or grant.

Course outcomes:

By the end of the Scientific Writing course, students will be able to:

- Structure a piece of scientific writing effectively
- Write more critically and identify the difference between description and analysis
- Understand some of the common features of scientific style
- Avoid plagiarism and be able to paraphrase scientific ideas
- Write a scientific report according to typical conventions, and know when to consult departmental guidelines.

MODULE I:

Lecture: What makes good writing? Are there “good writers” and “bad writers”?

Words, word choice, the basic elements of sentences and sentence structure.

MODULE II:

The News Article

Dissecting the news article, News-writing is the art of maximizing information and minimizing words; it's the barest-bones form of writing. The fundamentals of good writing can be learned by dissecting news articles.

MODULE III:

Writing Basics I

Punctuation and Parallelism. Tricks for clarity, brevity, and finesse. Peer interviews and write-up mini-profiles

MODULE IV:

Writing Basics II

Paragraphs, logic, and organization. Organizational strategies. paragraph re-writing exercise. Article for a “Letter to the Editor” piece.

Writing Basics III

Good Writing Applied: The Scientific Manuscript ,Putting it all together, group rewrites



MODULE V:

Methods and Results Sections, Discuss a variety of journal articles that present data in different ways. Wrapup scientific manuscripts plus Overview of grant writing.

The Abstract, Introduction, and Discussion: Getting to the main point and summarizing effectively. How to conduct literature reviews. Writing an effective discussion.

Duration of VAC: The duration of value added course should not be less than 30 lectures.

Passing Requirement and Grading:

- The passing requirement for value added courses will be 60% of the marks prescribed for the course.
- A candidate who has not secured a minimum of 60% of marks in a course shall reappear for the course in the next semester/year.
- The grades obtained in VACs will be included for calculating the CGPA.

Course Completion:

- Learners will get a certificate after they have registered for, MCQ exam (having 30 multiple choice questions) and successfully passed.
- The students who have successfully completed the Value Added Course shall be issued with a Certificate duly signed by the Authorized signatories.