**Aims and Objectives**

a. To enhance graduate students’ ability to communicate scientific ideas in a concise manner.
b. To engage graduate students in scientific discussion and reasoning in a professional manner.
c. To enhance the students’ ability to interact with other people and address questions/challenges with confidence.
d. To encourage students to critically evaluate the research of other scientists.
e. To further develop students’ skills in scientific research, such as background literature search and critical thinking.
f. To keep graduate students abreast of the literature.
g. To acquire an appreciation of the range of recent scientific work.

**Syllabus**

This module will expose the students to the recent frontier research findings published in leading research journals and enable them to study in depth some of this work while keeping abreast with current literature. Students will also be equipped with essential communication skills which enable them to express their idea clearly and to evaluate the research of other scientists critically. In addition, they are expected to be able to participate actively in discussions and address challenges with confidence.

This module involves attending seminars organized by the Department and presented by experts in different fields. Students will also attend presentations by fellow graduate students. Students are required to give presentations as well as participate in discussions. They will also write critiques on the seminars they have attended. Towards the end of the module, a graduate student research congress will be organized for all graduate students to present their research work.

**Assessment**

- Presentations: 20%
- Class participation: 20%
- Seminar participation: 20%
- Critique writing: 20%
- Graduate student research congress: 20%

**Prerequisites**

Approval by Division