

## 04 Chemistry

- Students are expected to have a sound foundation in the fundamentals and application of current chemical and scientific theories pertaining to those in Organic, Physical, Analytical and Inorganic Chemistries.
- Develop the ability to conduct chemical experiments, analyze data, handle various relevant scientific software packages, and interpret results, while observing responsible and ethical scientific conduct. Students are expected to gain the required expertise related to the proper protocols and regulations for safe handling and use of various instruments and chemicals along with the laboratory techniques to negate any possible accident.
- Demonstrate effective scientific communication skills – both written and oral. Students will be able to produce scientific reports formatted for peer-reviewed publication, using the primary literature.
- Exposure to contemporary research problems is expected to help students integrate their individual ideas and experiences to synthesize and transfer their learning to new, complex situations within and beyond their domain.