

CHEMICAL ENGINEERING, PH.D.

Learning Outcomes

1. To acquire and demonstrate expertise in selected core subject areas of chemical engineering: chemical process analysis, thermodynamics, fluid flow analysis, heat and mass transfer in the presence of chemical reactions.
2. To acquire a working knowledge of various areas of chemical science and technology and in allied fields, including other engineering disciplines, the sciences, and mathematics.
3. To gain exposure to advances at the frontiers of knowledge in chemical science and technology.
4. To acquire the ability to identify pertinent research problems, to formulate and execute a research plan, to generate and analyze original research results, and to communicate those results through oral presentations and written publications submitted to refereed archival journals.