CHEMICAL ENGINEERING, PH.D.

Learning Outcomes

• 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.
• 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.
• To gain exposure to advances at the frontiers of knowledge in chemical science and technology.
• 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.