The undergraduate program begins with an introductory phase which emphasizes a basic understanding of the

fundamentals of classical mechanics, electrodynamics, thermodynamics and statistical mechanics, quantum mechanics, mathematical physics and experimental physics. After the completion of introductory courses, the students are introduced to more specialized fields such as solid state physics, optics, atomic and molecular physics, semiconductor physics, plasma physics, particle physics, astrophysics, biophysics and computational physics. In parallel with lecture, students are also encouraged to develop new skills and interests through independent research under the supervision of a chosen professor.

The graduate program focuses on the fields of condensed matter physics, optics, plasma physics, and particle and theoretical physics in both education and research. After the completion of the required courses in advanced classical mechanics, electrodynamics, quantum mechanics, statistical mechanics, and laboratory experiments, students are expected to choose a thesis advisor to start their own research and thesis program. In pursuit of excellence, the research program at the Department of Physics at KAIST covers many diverse topics, frequently in close collaboration with other universities, research institutes, and industry as well as other departments here at KAIST. The Department of Physics at KAIST is also expanding into newly emerging fields such as nonlinear dynamics, soft matter physics, complex systems, biophysics, etc.