

Specific Attributes within Design and Production Engineering according to the Concentration

Program graduates at Ain Shams University, can be specialized in one of the concentrations within the Design and Production Engineering program through two elective courses and graduation project. The proposed concentrations and resulting graduate attributes are:

Concentration	Graduate attributes
Manufacturing	Demonstrate additional abilities to select and link different manufacturing processes to certain design requirement to achieve desired levels of quality, product and process performance.
Mechanical design	Demonstrate additional abilities to model, analyze, and design mechanical components and systems using the most up-to-date tools of integrated systems.
Industrial engineering	Demonstrate additional abilities to analyze, design, integrate, operate, evaluate, control, automate, and implement methods and techniques to manage industrial systems.
Materials engineering	Demonstrate additional abilities to select, prepare, analyze, treat, and test materials for specific applications.