The Hashemite University

Admission and Registratuin Unit

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## **Courses Description**

College: Engineering

**Department:** 

Couse ID: 110400101 Description: Engineering Workshop

Full Course Description: This course is designed to provide engineering students with fundamentals of engineering

materials and their properties, manufacturing processes and industrial safety. It also exposes the student to practical training in different workshops in order to gain basic skills.

Couse ID: 110400102 Description: Computer Programming

Full Course Description: This course covers main topics of C++ programming including C++ fundamentals,

operations, elements, structured methods, variables, assignment, Input/Output, control

structures, functions, arrays, pointer, strings and classes.

Couse ID: 110400201 Description: Manual Engineering Drawing

Full Course Description: The course is designed to introduce principles of engineering drawing and descriptive

geometry, and enhance students' visualization capabilities to handle 3D problems. It is hoped that this course will enable students to read and understand design details of

engineering projects.

Couse ID: 110400202 Description: Computer Aided Engineering Drawing

**Full Course Description:** Drawing Introduction to Computer Aided Engineering Drawing (AutoCAD) Software, drawing limits, grid setting and rectangle, arc, aids, coordinate system, drawing tools (point, line, ray,

multi-line, poly-line, polygons, circle, ellipse), Modify tools (copy, erase, offset, move, rotate, lengthen, terminate, fillet, chamfer, and isometric drawing array), Layers, Zoom, dimensions,

text, hatch, orthographic projection.

Couse ID: 110400203 Description: Ethics and Communication Skills

Full Course Description: This course aims to introduce engineering ethics in theory and practice using a multi-

disciplinary approach. The students are exposed to ethical issues that engineers sometimes face in professional practice. The course will make use of case studies of ethical issues drawn from different fields of engineering. Oral and written communication skills will be also discussed by introducing levels and styles of technical writing. Common errors in usage,

documentation and citation of engineering documents

will be discussed.

Couse ID: 1704001303 Description: Numerical Analysis

**Full Course Description:** Basic principles of numerical analysis and methods for solving different engineering problems: error analysis, solution of linear and nonlinear algebraic equations, regression and

interpolating polynomials, numerical differentiation and integration, numerical solution

of ordinary and partial differential equations.

Couse ID: 1804001128 Description: Cyber Hygiene

Full Course Description: Uni. Elective