

# Product Design and Development Unit (PDDU)

## Aims/Objectives

- To train Alfaisal University students on the latest systems design and simulation technologies by leveraging the center's training assets in the fields of study and scientific research. This will give them a competitive advantage, and it will help meet some of the needs of the Saudi market for systems design and simulation engineers.
- To offer certified advanced training programs in product design and simulation for educational, industrial, and governmental sectors.
- To constitute an advanced consulting center in the fields of industrial mold and spare parts manufacturing.
- To constitute an incubator for emerging factories and companies that adopt the PLM paradigm.

## 1) Training Offered:

- a. The center will provide certified training programs in the areas of
  - i. CNC / CAM Programming (On Click, additional information can be provided, which is attached)
  - ii. Industrial Creative Design (On Click, additional information can be provided, which is attached )
  - iii. Mechanical Engineering Design (On Click, additional information can be provided, which is attached )
  - iv. Reverse Engineering and Quality Inspection (On Click, additional information can be provided, which is attached )
  - v. Mold Tool Design (On Click, additional information can be provided, which is attached )
  - vi. Unified Finite Element Analysis (On Click, additional information can be provided, which is attached )

## 2) Courses Open for Registration:

- a. The "Solid and Surface Modeling" course will be offered in April 2016. The five-day course is made of the following three modules
  - i. **Gateway to the 3DExperience Platform.** An introduction to the 3DExperience interface and platform. [*Dashboard, 6wTags for searching content, 3DSpace for sharing design material, standard menus and commands, functionalities of the different apps of the 3DExperience, open and explore 3D data.*]
  - ii. **CATIA Part Design Essentials.** Introduction to PLM and 3D modeling in CATIA. [*PLM object creation, 2D and 3D sketches, 3D model features, advanced sketch-based and surface features, parameters and formulas in the 3D model* ]
  - iii. **CATIA Generative Wireframe and Surface Essentials.** Curves and surfaces creation and assembly. [*Curves creation and improving quality of imported wireframes, surface creation based on wireframe geometries, assemble, re-limit, and connect the surfaces smoothly to achieve the topology, analyze the surface quality*]

***Please note that above points have little description. Detailed information of these courses are attached with the email together with course duration etc.***

**3) Registration**

- a. This form is attached with the email. We have to create online form similar to this which may store information into database

**4) Contact us:**

**5)**

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