

7. Modelling of innovative products development

- analysing potential of a product, planning its development and its launching (QFD),
- making the most of digital prototyping: 3D designing (flexible product modelling), project development automation, intelligent technologies, visualisation, documentation and animation of product in the making, simulation of a digital prototype of a product at the design stage,
- ergonomic designing of new products and creating green products,
- analysing and evaluating the existing technological solutions in a company and developing new methods of production knowledge acquisition and representation,
- creating system databases of knowledge supporting decision-making in the innovation designing of technological processes,
- consulting in technical and organizational preparation of production.

A support a company will get concentrates on the design and technological preparation of production treated as vital in the innovative products development. Computer-aided design and production techniques render it possible to make 3D models of innovative products along with the simulation of their production. Automation of a product development works towards the improvement of a design intent by the use of intelligent components which accelerate the cycle of a product development. Procuring an expert opinion on technological processes may only enhance the implementation of innovative technological solutions in a company.