

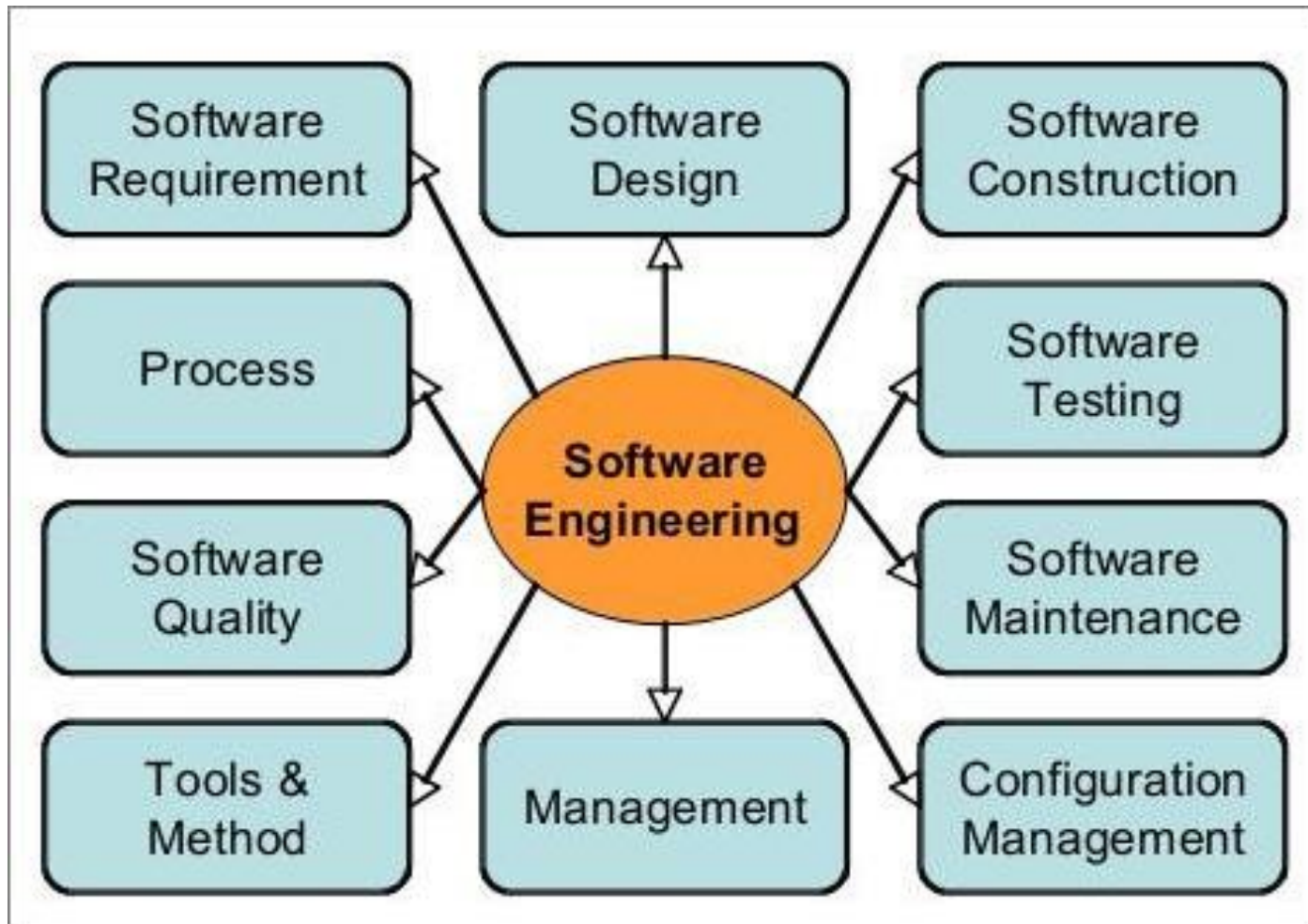
MINISTRY OF SCIENCE AND EDUCATION
NATIONAL TECHNICAL UNIVERSITY
“KHARKIV POLYTECHNIC INSTITUTE”
DEPARTMENT OF SOFTWARE ENGINEERING AND MANAGEMENT
INFORMATION TECHNOLOGIES

Basic principles of software engineering

Kharkiv
2016

Definition of Software Engineering

Software engineering is an engineering discipline that is concerned with all aspects of software production.



Definition of Software

Software is a computer programs with all associated documentation and configuration data that is required to make these programs operate correctly.

Software documentation usually includes:

- system documentation, which describe the structure of the system;



- user documentation, which explain how to use the system;



- Web-sites for users to download recent product information.



Categories of Software

Application software



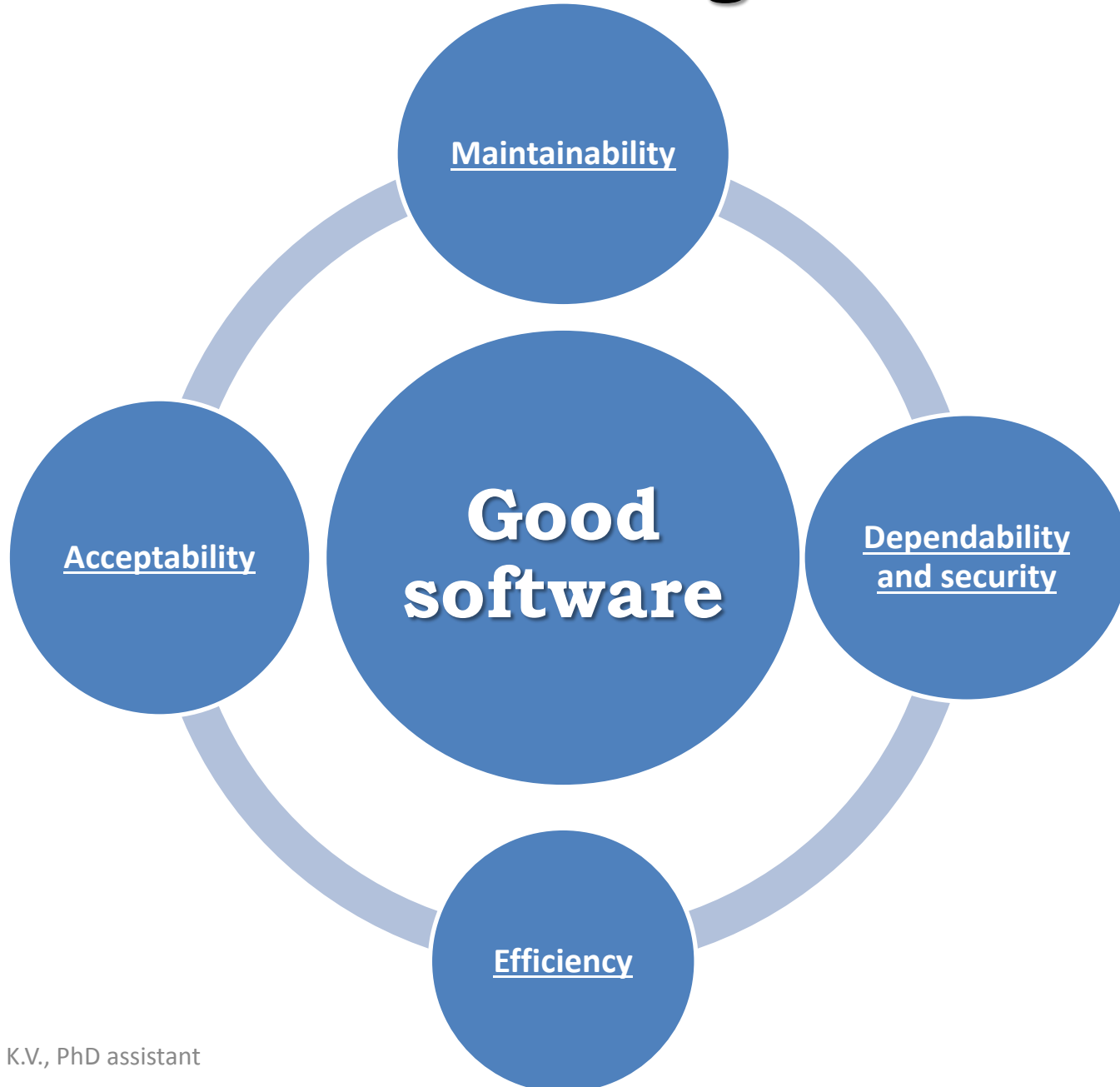
System software



Computer programming tools



Essential attributes of good software



Stages of a software process

Software specification



Software development



Software validation



Software evolution