What is software engineering?

Software: code, documentation, user manuals, designs, specifications, test cases, plans and schedules

Engineering:

creatively applying science and math

to designing and building things

involves trade-offs, risk analysis, skill, and knowledge

A broad field that touches upon all aspects of developing and supporting a software system.

A discipline that deals with the building of software systems which are so large that they are built by a team or teams of engineers.

Multi-person construction of multi-version software.

A discipline whose aim is the production of fault-free software, delivered on-time and within budget, that satisfies the user’s needs. Furthermore, the software must be easy to modify when the user’s needs change.

Informatic 43 definition:

The process of constructing software

Phases of development other than programming

Principles and qualities of enduring value

The process of constructing software

Requirements

Design

Implementation

Verification

Maintenance

Principles and qualities of enduring value

Correctness

Adatability

Usability

Reliability

Modularity

Efficiency

Robustness

Software is everywhere