**How do we define software engineering?**

***SOFT WARE ENGINEERING:***

The application of is a systematic, disciplined , quantifiable approach to the development , operation, and maintenance of software; that is the application of engineering to software.

**Software engineering layers**



**Generic Software Engineering Phases**

**Definition phase** - focuses on what (information engineering, software project planning, requirements analysis).

**Development phase** - focuses on how (software design, code generation, software testing).

**Support phase -** focuses on change (corrective maintenance, adaptive maintenance, perfective maintenance, preventative maintenance).

**Software Engineering Umbrella Activities**

* Software project tracking and control
* Formal technical reviews
* Software quality assurance
* Software configuration management
* Document preparation and production
* Reusability management
* Measurement
* Risk management