Roll NO -170102021 Lecture 7 - 16/9/20 loges Software Engineering Layers Software Engineering is a layered technology Tools Nethods Process A Quality focus few important characteristics. i) Maintainability -> Software can be raintained by anyone. -> Users can truet the software against specifications ii) Defendability -> broduce same results when used again efficiently. (ii) Efficiency (iv) Usualility -> Sasy to hused and user interface should be every to follow and Attoributes to good quality - few functionalities that makes i) completeness it complete cg. Editor should have "therawas (ii) Compatability -> Software should work in all different ways. eg. Compatible with all file formats

(1) Portability of Software: - Data can be ported from any system to any other. Formatting info should not be lost 10) Internationalisation -, can be used in any part of the world by anyone. May include language translation I scalability -> software should work flawlessly even if number of users increases. Also "Too much survess is a failure" it the company is not able to support a huge user base. fabustness -> saftware should be rabust enough (VI) to bandle attacks, security threats, orons, self check, necover data automatically in emergency. Testability -> Capability to test in a disciplined VII) wave exhaustively in an automatic fashion Reusability -> Can software be necycled for viii) releasing new versions or can it be used again or modified. Customisation -> Better that the software, (iv) more customisable it is. How much can it be modified easily with same algorithm used.

It brows defines a framework for a set of key process areas (KPAs) that must be established to a set for effective delivery of software engineering technology. It software engineering methods posovide the technical how to's for building software. Methods encompasses a broad away of tasks that include requirements analysis, design, program construction, testing, and support. It Software engineering tools provide automated or seni - automated support for the process and the methods. When tools are integrated so that information orested by one tool can be used by another, a system for the support of software development called "computer-aided software engineering" is established.