Ethical principles: PUBLIC, CLIENT AND EMPLOYER, PRODUCT, JUDGMENT, MANAGEMENT, PROFESSION, COLLEAGUES, SELF.

Web software engineering: software reuse is the dominant approach for constructing web-based systems. Incremental and agile development.

Ethical behavior is more than simply upholding the law but involves following a set of principles that are morally correct.

Competence: engineers should not misrepresent their level of competence. They should not knowingly accept work which is out with their competence.

Engineering discipline: Using appropriate theories and methods to solve problems bearing in mind organizational and financial constraints.

Essential attributes of good software: Maintainability, Dependability (reliability, safety and security), Efficiency (responsiveness, processing time, memory utilization), Acceptability

The development of interactive web-based systems and mobile apps which require a blend of software and graphical design skills. The web has led to the availability of software services and the possibility of developing highly distributed service-based systems. Web-based systems development has led to important advances in programming languages and software reuse.

Good software should deliver the required functionality and performance to the user and should be maintainable, dependable and usable.

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

Difference between software engineering and computer science: System engineering is concerned with all aspects of computer-based systems development including hardware, software and process engineering. Software engineering is part of this more general process.

The fundamental software engineering activities: software specification, software development, software validation and software evolution.

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Generic products – Stand-alone system: CAD, appointments systems for dentists.

Customized products – Commissioned by a specific customer to meet their own needs: traffic monitoring systems.

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UML - A visual language for specifying, constructing and documenting the artifacts of systems.

Requirements engineering: