



## LECTURE PLAN ON & RELATED LINK

### Software Engineering

#### Comp. Sc. (General)

#### **Paper: CMS-A-CC-6-13-TH Credit: 4**

Class	Content	Links	Faculty approach	Student activity	Learning Outcome
Class 1	Introduction Defining system, open and closed system	<a href="https://www.techtarget.com/whatis/definition/software-engineering">https://www.techtarget.com/whatis/definition/software-engineering</a>	Explain	Listen	Understand
Class 2	modeling of system through computer hardware, communication systems, external agents and software systems	<a href="https://www.techtarget.com/whatis/definition/software-engineering">https://www.techtarget.com/whatis/definition/software-engineering</a>	Explain Using Bord work	Listen And Write	Understand
Class 3	Importance of Engineering Methodology towards computerization of a system.	<a href="https://www.techtarget.com/whatis/definition/software-engineering">https://www.techtarget.com/whatis/definition/software-engineering</a>	Explain	Listen	Understand
Class 4	modeling of system, Software development life cycle	<a href="https://www.techtarget.com/whatis/definition/software-engineering">https://www.techtarget.com/whatis/definition/software-engineering</a>	Explain Using Bord work	Listen And Write	Understand
Class 5	Software Life Cycle Classical and Iterative Waterfall Model	<a href="https://www.sciencedirect.com/topics/computer-science/waterfall-model">https://www.sciencedirect.com/topics/computer-science/waterfall-model</a>	Explain Using Bord work	Listen And Write	Understand and Analyze
Class 6	Spiral Model	<a href="https://www.sciencedirect.com/topics/computer-science/spiral-model">https://www.sciencedirect.com/topics/computer-science/spiral-model</a>	Explain Using Bord work	Listen And Write	Understand and Analyze
Class 7	Prototype Model	<a href="https://www.sciencedirect.com/topics/computer-science/prototype-model">https://www.sciencedirect.com/topics/computer-science/prototype-model</a>	Explain Using Bord work	Listen And Write	Understand and Analyze
Class 8	Evolutionary model	<a href="https://www.sciencedirect.com/topics/computer-science/evolutionary-model">https://www.sciencedirect.com/topics/computer-science/evolutionary-model</a>	Explain Using Bord work	Listen And Write	Understand and Analyze
Class 9	Importance of different models.	<a href="https://www.techtarget.com/whatis/definition/software-engineering">https://www.techtarget.com/whatis/definition/software-engineering</a>	Explain	Listen	Understand
Class 10	application for different system representations,	<a href="https://www.techtarget.com/whatis/definition/software-engineering">https://www.techtarget.com/whatis/definition/software-engineering</a>	Explain	Listen	Understand
Class 11	Introduction of Software Requirement and Specification	<a href="https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification">https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification</a>	Explain	Listen	Understand
Class 12	Characteristics of good Software Requirement and Specification	<a href="https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification">https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification</a>	Explain	Listen	Understand
Class 13	Software Requirement and Specification format	<a href="https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification">https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification</a>	Explain Using Bord work	Listen And Write	Analyze
Class 14	Software Requirement and Specification Analysis	<a href="https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification">https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification</a>	Explain Using Bord work	Listen And Write	Analyze
Class 15	Software Requirement and Specification representations.	<a href="https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification">https://www.techtarget.com/searchsoftwarequality/definition/software-requirements-specification</a>	Explain Using Bord work	Listen	Understand



Class 16	Introduction of Data Flow Diagram and its different figures	<a href="https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html">https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html</a>	Explain Using Bord work	Listen and draw	Understand
Class 17	Different level of DFD Design	<a href="https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html">https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html</a>	Explain Using Bord work	Listen and draw	Understand
Class 18	Physical and Logical DFD	<a href="https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html">https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html</a>	Explain Using Bord work	Listen and draw	Understand
Class 19	Use and Conversions between Physical and Logical DFD	<a href="https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html">https://www.edrawmax.com/article/data-flow-diagram-in-software-engineering.html</a>	Explain Using Bord work	Listen	Analyze
Class 20	Decision Tables and Trees	<a href="https://www.codershelpline.com/courses/theorypapers/system-analysis-design/decision-trees-and-decision-tables/#google_vignette">https://www.codershelpline.com/courses/theorypapers/system-analysis-design/decision-trees-and-decision-tables/#google_vignette</a>	Explain	Listen	Understand
Class 21	Structured analysis	<a href="https://sathee.prutor.ai/article/software-engineering/software-engineering-software-analysis-design/">https://sathee.prutor.ai/article/software-engineering/software-engineering-software-analysis-design/</a>	Explain	Listen	Understand
Class 22	Coupling and Cohesion of different modules	<a href="https://www.scaler.com/topics/cohesion-and-coupling-in-software-engineering/">https://www.scaler.com/topics/cohesion-and-coupling-in-software-engineering/</a>	Explain	Listen	Understand
Class 23	Software Cost Estimation Modeling –COCOMO	<a href="https://www.educative.io/answers/what-is-the-cocomo-model">https://www.educative.io/answers/what-is-the-cocomo-model</a>	Explain Using Bord work	Listen and calculate	Analyze
Class 24	Calculate fields and items.	<a href="https://www.educative.io/answers/what-is-the-cocomo-model">https://www.educative.io/answers/what-is-the-cocomo-model</a>	Explain Using Bord work	Listen and calculate	Analyze
Class 25	Software Testing	<a href="https://katalon.com/resource-s-center/blog/software-testing">https://katalon.com/resource-s-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand
Class 26	Software Verification and Validation	<a href="https://katalon.com/resource-s-center/blog/software-testing">https://katalon.com/resource-s-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand
Class 27	Testing objectives, Testing Principles, Testability	<a href="https://katalon.com/resource-s-center/blog/software-testing">https://katalon.com/resource-s-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand
Class 28	Error and Faults	<a href="https://katalon.com/resource-s-center/blog/software-testing">https://katalon.com/resource-s-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand
Class 29	Unit Testing	<a href="https://katalon.com/resource-s-center/blog/software-testing">https://katalon.com/resource-s-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand
Class 30	White Box and Blank Box Testing,	<a href="https://katalon.com/resource-s-center/blog/software-testing">https://katalon.com/resource-s-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand



Class 31	Test Case Design	<a href="https://katalon.com/resource-center/blog/software-testing">https://katalon.com/resource-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand
Class 32	Test Vector,	<a href="https://katalon.com/resource-center/blog/software-testing">https://katalon.com/resource-center/blog/software-testing</a>	Explain Using Computer System	Practice	Understand
Class 33	Stub	<a href="https://medium.com/@keploy1/understanding-mocks-stubs-and-fakes-in-software-testing-ef7848741a48">https://medium.com/@keploy1/understanding-mocks-stubs-and-fakes-in-software-testing-ef7848741a48</a>	Explain Using Computer System	Practice	Understand
Class 34	Software Quality Assurances	<a href="https://shiftasia.com/column/software-quality-assurance-101-the-basics/">https://shiftasia.com/column/software-quality-assurance-101-the-basics/</a>	Explain Using Computer System	Practice	Understand
Class 35	Quality Assurance Quality Control	<a href="https://shiftasia.com/column/software-quality-assurance-101-the-basics/">https://shiftasia.com/column/software-quality-assurance-101-the-basics/</a>	Explain Using Computer System	Practice	Understand
Class 36	IEEE Standard for Statistical Software Quality Assurances (SSQA) criteria	<a href="https://ieeexplore.ieee.org/document/6835311">https://ieeexplore.ieee.org/document/6835311</a>	Explain Using Computer System	Practice	Understand

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