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SPECIALITY: **SOFTWARE ENGENEERING**

LEVEL: **100**

**LAB 1**

1. “Software Engineering is part of System Engineering Process”. Do you agree with the above statement? Justify your answer

Yes. Inasmuch as any other engineering discipline relevant to the System of Interest is. Thus, if such a system has a software component that needs to be created, then Software Engineering will likely be a part of the overall design and development process. If the system is (say) mechanical, then likely not.

At the same time, Software Engineering is not integral to existing Systems Engineering processes. That said the Object Management Group's Object Oriented Systems Engineering framework / methodology, is patterned after Object Oriented Software Design.

1. What is “Software Crisis”?

**Software crisis** is a term used in the early days of [computing science](https://en.wikipedia.org/wiki/Computing_science) for the difficulty of writing useful and efficient computer programs in the required time. The software crisis was due to the rapid increases in computer power and the complexity of the problems that could now be tackled. With the increase in the complexity of the software, many software problems arose because existing methods were inadequate.

1. What are the professional responsibilities of a Software Engineer?

Software engineers are responsible for researching, designing, implementing, and supporting software solutions.

1. “Component-based Software Engineering allows faster delivery”. State whether this statement is true or false. Justify your answer.

**TRUE**. Due to using previously tested components they produce more reliable system at a faster rate.