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### Introduction to Discrete-Event Simulation IEE475: Lab 1 - Discrete Event System Simulation Basics

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## Introduction to Discrete Event Systems

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A discrete-event simulation models the operation of a system as a sequence of events in time. Each event occurs at a particular instant in time and marks a change of state in the system. Between consecutive events, no change in the system is assumed to occur; thus the simulation time can directly jump to the occurrence time of the next event, which is called next-event time progression. In addition to next-event time progression, there is also an alternative approach, called fixed-increment time

## Discrete-event simulation - Wikipedia

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Abstract In our study of dynamic systems, our first goal is to obtain a model. For our purposes, a model consists of mathematical equations which describe the behavior of a

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system. For example, in Chap. 5 we developed the set of equations (5.7)– (5.12) which describe how the state of a DES evolves as a result of event occurrences over time.

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In discrete systems, the changes in the system state are discontinuous and each change in the state of the system is called an event. The model used in a discrete system simulation has a set of numbers to represent the state of the system, called as a state descriptor.

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