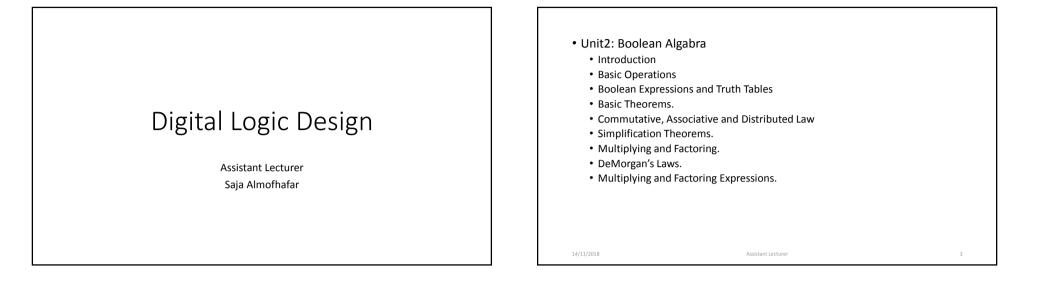
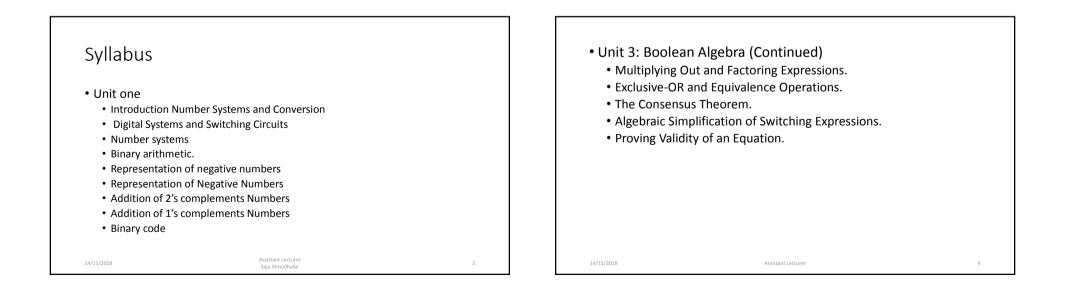
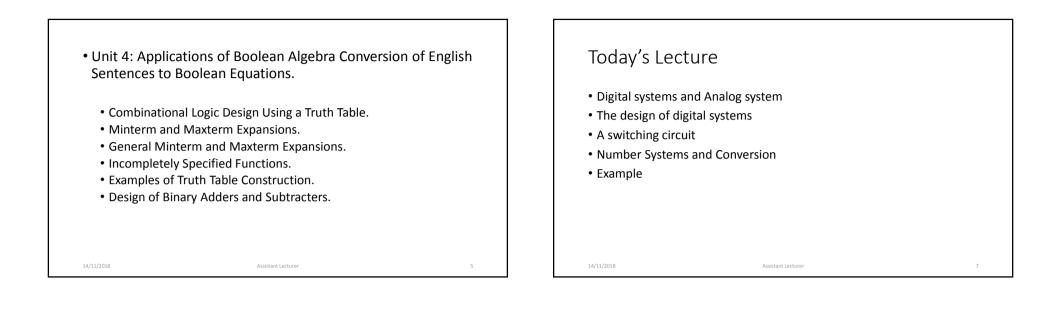
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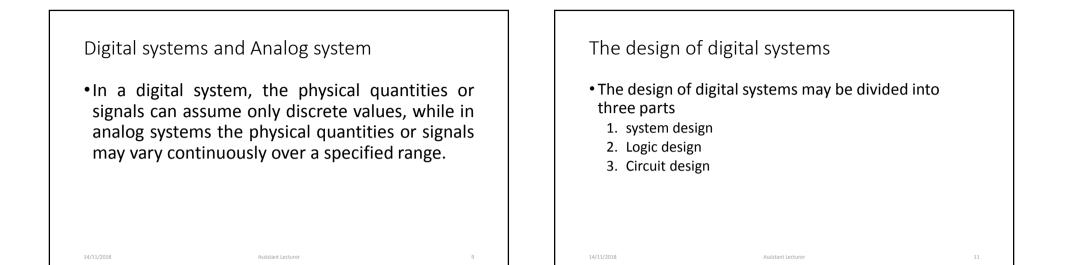
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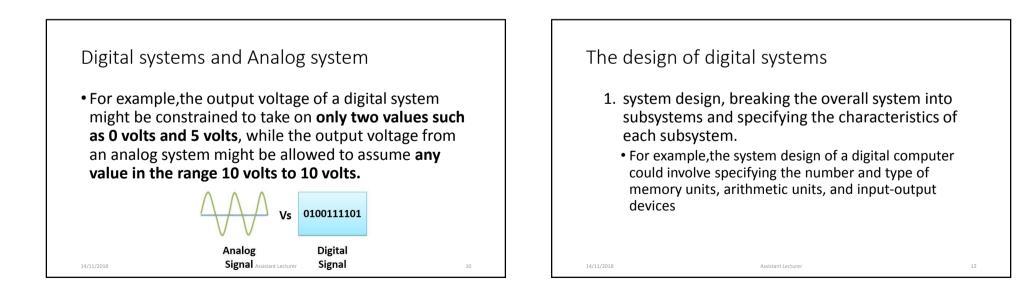
Unit 5: Karnaugh Maps
Minimum Forms of Switching Functions.
Two- and Three-Variable Karnaugh Maps.
Four-Variable Karnaugh Maps.
Determination of Minimum Expressions Using Essential Prime Implicants.
Five-Variable Karnaugh Maps.
Other Uses of Karnaugh Maps.
Other Forms of Karnaugh Maps.

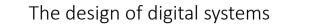
Digital systems and Analog system

• Digital systems are used extensively in computation and data processing, control systems,communications,and measurement.Because digital systems are capable of greater accuracy and reliability than analog systems, many tasks formerly done by analog systems are now being performed digitally.

Assistant Lecture







- 2. logic design involves determining how to interconnect basic logic building blocks to perform a specific function.
 - An example of logic design is determining the interconnection of logic gates and flip-flops required to perform binary addition

A switching circuit

14/11/2018

- Switching circuit has one or more inputs and one or more outputs which take on discrete values. There are two types of switching circuits—combinational and sequential.
 - **1. combinational circuit**, the output values depend only on the present value of the inputs and not on past values.
 - **2. sequential circuit**, the outputs depend on both the present and past input values. (has a memory to store the past output

