University Of Salahaddin
College Of Engineering
Electrical Engineering Department

Course Description

Subject: Digital Electronics-I
Class: second year
B.SC Degree in electrical engineering
Academic year 2020/2021

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Course objective
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The purpose of this course is to learn the numbering system and the identification of logic gates and to study ways to design logical circuits using these gates , minimization Boolean functions using K-map and study of commonly used services such as adder, subtractor, multiplexer and de multiplexer

And finally identify the flip-flops and their use in circuits such as logical registers and counters

Form Of Teaching

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For the teaching of the subject (Digital Electronics I) I use the whiteboard as well as the computer and use of cretin programs such as electronic workbench and Microsoft power point

In order to convey information well to the student follow the method of making the discussions during the lecture by posing some questions to the student or give students the opportunity to ask questions

Grading

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My teaching subject (digital electronics I) is 1 semester. (15 weeks)

The following grade system is used for the evaluation of the module exam:
The module exam is based on the summation of two categories of evaluations:

First: (40%) of the mark is based on the academic semester effort which includes

- - one examination during the academic semester = 20%.
- - Assignments = (20%).

Second: (60%) of the mark is based on final examination that is comprehensive for the whole of the study materials reviewed during the academic semester.

Course book

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As well as . I prefer electronic resources which are available because of internet access availability any where; the following text books are useful to enhance student scientific backgrounds:

- S.N.Ali, Digital Electronics-Circuits,Systems
- A.P.godse Digital Techniques