

Download Free Digital Electronics Lab Manual 4  
By Navas Fefaf

# **Digital Electronics Lab Manual 4 By Navas Fefaf**

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Digital Electronics Lab Manual  
4 DIGITAL ELECTRONICS LAB DO'S  
DON'TS 1. Be regular to the lab. 2.  
Follow proper Dress Code. 3.  
Maintain Silence. 4. Know the  
theory behind the experiment  
before coming to the lab. 5. Identify  
the different leads or terminals or  
pins of the IC before making  
connection. 6. Know the Biasing  
Voltage required for different  
families of IC's and connect DIGITAL  
ELECTRONICS LAB MANUAL de lab  
(ee-224-f) department of electrical  
and electronics engineering  
dronachary college of  
engineeringpage 3 experiment no:  
1 aim: introduction to digital  
electronics lab- nomenclature of  
digital ics, specifications, study of

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the data sheet, concept of  $V_{CC}$  and ground, verification of the truth tables of logic gates using TTL

ICs. DIGITAL ELECTRONICS LAB

(EE-224-F) IV SEMESTER DIGITAL

ELECTRONICS LAB PROCEDURE: (a)

With given equation in SOP/POS

forms first of all draw a K-map. (b)

Enter the values of the O/P variable

in each cell corresponding to its

Min/Max term. (c) Make group of

adjacent ones. (d) From group write

the minimized equation. (e) Design

the ckt. of minimized equation &

verify the truth table. DIGITAL

ELECTRONICS LAB - Bhagwant

University 1) Test all the IC

packages using digital IC tester. 2)

Set up the circuit one by one and

verify their truth table. 3) Observe

the output corresponding to input

combinations and enter it in truth

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table. DEPARTMENT OF  
ELECTRONICS & COMMUNICATION  
ENGINEERING ... Microwave and  
Digital communication Lab 4 PCM  
Operation (with DC input)

Modulation: 8. Set DC source to  
some value say 1 V with the help of  
multimeter and connect it to the  
A/D converter input and observe  
the output LED's. 9. Note down the  
digital code i.e output of the A/D  
converter and compare with the  
theoretical value DIGITAL

COMMUNICATIONS LAB STUDENTS  
GUIDELINES There is 1Hr 40

Minutes allocated to a laboratory  
session in Digital Electronics. It is a  
necessary part of the course at  
which attendance is compulsory.  
Here are some guidelines to help  
you perform the experiments and to  
submit the reports: Digital

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Electronics Lab Course title: Digital

Electronics Lab Course Code:(EELE

3121) Prerequisite: Electronics (I)

Lab, Digital Design Lab Laboratory

Experiments: The lab will cover the

following experiments: Experiment

1: Introduction to Orcad.

Experiment BJT Inverter. 2:

Experiment 3: Diode-Resistor Logic

(DRL) Gates. Experiment 4: Resistor-

Transistor Logic (RTL ... Digital

Electronics Lab Manual - Islamic

University of Gaza This manual is

intended for the Second year

students of CSE branches in the

subject of Digital Electronics . This

manual typically contains

practical/Lab Sessions related

Digital Electronics covering various

aspects related the subject to

enhanced understanding. Students

are advised to thoroughly go

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though this manual rather than Laboratory Manual DIGITAL ELECTRONICS Experiments. The broad list of experiments is as follows. Within each experiment, there are many sub-experiments. User Manual. The user manual for performing the experiments is given. Digital Electronics Laboratory Digital Electronic 1 Laboratory Manual . All readings should be within 10% of their marked voltages. Some interface devices in digital logic require both positive and negative polarity power supplies, and in those circuits, it is common to see a 0V ground reference. Turn off the trainer for the next measurement.

3. Variable Voltage Supply

3.1. Digital Electronics 1 (ET181) Laboratory Manual Digital

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Electronics Circuits 2017 4

Realization using NOR gates 2) For the given Truth Table, realize a logical circuit using basic gates and NAND gates PROCEDURE: Check the components for their working. Insert the appropriate IC into the IC base. Rig up the circuit as shown in the logic circuit diagram. Digital

Electronics Circuits Digital

Electronics Laboratory (ECE 5420)

Laboratory Experiment (1)

Multiplexers and De-multiplexers

Objectives To analyze the logic

operation of a 4 lines to 1 line

multiplexer (data selector) circuit

and a 1 line to 4 line de-multiplexer

circuit. Instruments DL 3155M18

module (unit #3), pulse generator,

logic probes, logic switches, and a

cable German- Jordanian

University Digital Electronic Circuits

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Lab. Reference Books . Syllabus Mapping . Reference Books.  
DIGITAL DESIGN ? Third Edition ,  
M.Morris Mano, Pearson  
Education/PHI. Digital Principles and Design ? Donald D.Givone, Tata McGraw Hill, Edition. John F Wakerly, ?Digital Design Principles and Practices 3/e?, Pearson Education 2001. Virtual Labs - Electronics &

Communications DIGITAL  
ELECTRONICS LAB Ex. No: 4 DESIGN  
OF 4-BIT ADDER AND SUBTRACTOR

Date: AIM: To design and  
implement 4-bit adder and  
subtractor using IC 7483.

APPARATUS REQUIRED: SI.No.

COMPONENT SPECIFICATION QTY.

1. IC IC 7483 1 2. EX-OR GATE IC  
7486 1 3. NOT GATE IC 7404 1 3. IC  
TRAINER KIT - 1 4. Digital



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electronics lab - LinkedIn

SlideShare lab manual (digital electronics) EXPERIMENT NO:1

Verification and interpretation of truth tables for AND, OR, NOT, NAND, NOR Exclusive OR (EX-OR), Exclusive NOR (EX-NOR) Gates. LAB MANUAL (DIGITAL ELECTRONICS) -

amittal Basic Electronics Lab

Manual Objective of this laboratory manual is to teach students about electronics components,

characteristics of semi-conductor devices and design rectifiers, filters and amplifiers, simple electronic circuits. Author (s): Muffakham Jah

College Of Engineering And Technology 89 Pages Basic

Electronics Lab Manual | Download book digital electronic systems - Be able to understand and apply Boolean logic and algebra - a core

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competence in Computer Science –

Be able to understand and build

state ... • Keep up with lab work

and get it ticked. • Have a go at

supervision questions plus any

others your supervisor sets. •

Remember to try questions from

past Digital Electronics Part I –

Combinational and Sequential

... This manual concentrates on the

basic building blocks of digital

electronics: logic gates and

memory. It focuses on these items

from the ground up. The reader will

first see how logic gates can be

constructed from transistors and

then how digital logic functions are

constructed using those

gates. Introduction to Digital Logic

with Laboratory Exercises EEW LAB

MANUAL SVBIT/EC/EEW LAB

MANUAL Page 4 23. Photo transistor

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24. Optocoupler 25. Thermistor 26. LDR(Light Dependent Resistor) 27. UJT(Uni Junction Transistor) n-type 28. UJT(Uni Junction Transistor) p-type 29. SCR(Silicon Controlled Rectifier) 30. DIAC ELECTRICAL AND ELECTRONICS WORKSHOP

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Dronacharya College Of

Engineering April 21st, 2018 - LAB MANUAL IV SEM ECE Introduction To Digital Electronics Lab

Nomenclature Of Digital ICS

Specifications Study Of The Data Sheet Concept Of Vcc And

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