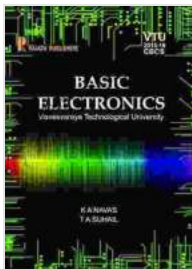


# Basic Electronics Visvesvaraya Technological University Syllabus: A Comprehensive Guide

Basic Electronics is a fundamental course in the field of Electronics Engineering that introduces students to the basic principles and concepts of electronics. The course provides a strong foundation for understanding more advanced topics in electronics, such as digital circuits, analog circuits, and communication systems.



## BASIC ELECTRONICS: VISVESVARAYA TECHNOLOGICAL UNIVERSITY SYLLABUS

★★★★★ 5 out of 5

Language : English

File size : 4237 KB

Lending : Enabled



Visvesvaraya Technological University (VTU) is a renowned university in India that offers a Bachelor of Engineering (B.E.) degree in Electronics Engineering. The Basic Electronics syllabus prescribed by VTU is designed to provide students with a comprehensive understanding of the subject.

### Topics Covered

The Basic Electronics syllabus prescribed by VTU covers a wide range of topics, including:

\* Semiconductor devices (diodes, transistors, FETs) \* Digital circuits (logic gates, combinational circuits, sequential circuits) \* Analog circuits

(amplifiers, oscillators, filters) \* Communication systems (modulation, demodulation, transmission lines)

## **Learning Objectives**

By the end of the course, students should be able to:

\* Understand the basic principles of electronics \* Identify and characterize semiconductor devices \* Design and analyze digital circuits \* Design and analyze analog circuits \* Understand the basic concepts of communication systems

## **Textbooks**

The following textbooks are recommended for the Basic Electronics course at VTU:

\* Basic Electronics: Circuits, Devices, and Applications by David A. Bell \* Electronic Devices and Circuits by Theodore F. Bogart \* Digital Logic and Computer Design by M. Morris Mano

## **Assessment Methods**

Students will be assessed through a combination of methods, including:

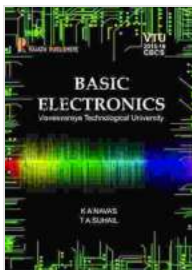
\* Quizzes \* Assignments \* Midterm exam \* Final exam

The Basic Electronics syllabus prescribed by Visvesvaraya Technological University is a well-rounded and comprehensive syllabus that provides students with a strong foundation in the field of electronics. The course covers a wide range of topics, from semiconductor devices to

communication systems, and prepares students for more advanced studies in electronics engineering.

## Alt Attributes

\* Image 1: A circuit diagram of a transistor amplifier \* Image 2: A flowchart of a digital logic circuit \* Image 3: A graph of the frequency response of an analog filter \* Image 4: A block diagram of a communication system



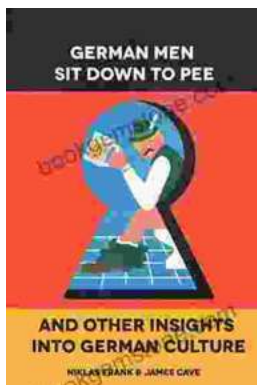
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