

"Education for Knowledge, Science, and Culture" - Shikshanmaharshi Dr. Bapuji Salunkhe Shri Swami Vivekanand Shikshan Sanstha's

khe A HE AND COLLEGE

Vivekanand College, Kolhapur (Autonomous)

KOLHAPUR (AUTONOMOUS)

## **Department of Electronics**

Course Outcomes (Cos)

B.Sc. I Electronics (Implemented from JUNE 2021)		
Semester I		
Paper I- DSC-1005A1: ANALOG ELECTRONICS-I		
CO No.	After completion of the courses, students will be able to:	
CO1:	Identify and explain electrical components and determine the value of resistor, inductor and capacitor using colour code method.	
CO2:	Understand the basic properties of electrical elements, and solve DC circuit analysis problems, DC network theorems.	
	Acquire the knowledge about the characteristics and working principles of PN junction diode, Zener diode, photo diode, LED and	
C04:	different diode applications. Understanding and study of rectifier, filter and voltage regulator circuits.	
Paper II- DSC-1005A2: DIGITAL ELECTRONICS-I		
<b>CO1</b>	solve the binary arithmetic problems.	
C02	Design and construction of the basic and universal logic gates and studying the Boolean algebra and simplification of Boolean expressi using different methods.	
CO3	Understanding and comparing different logic families according IC specifications and their circuit configurations.	
C04	: Understand, analyze and design various combinational circuits.	



	Semester II	
Paper III- DSC-1005B1: ANALOG ELECTRONICS-II		
CO No.	After completion of the courses, students will be able to:	
C01:	Analyze output in different operating modes of Bipolar Junction Transis and Demonstrate the operating principle and output characteristics of Bipolar Junction Transistor	
C02:	Explain construction and characteristics of JFETs, MOSFETs and UJT.	
CO3:	Design biasing circuits for BJT and study different coupling methods use multistage amplifiers	
CO4:	Analyze the importance of feedback in amplifiers. Apply the Knowledge gained in the design of transistorized circuits and Oscillators.	
Paper IV- DSC-1005B2: DIGITAL ELECTRONICS-II		
C01:	Understand, analyze and design various sequential circuits.	
CO2:	Understanding the working of different shift registers and counters.	
CO3:	Became able to know various types of analog to digital converters and digital to analog converters.	
CO4:	Explain and compare the working of multivibrators using special application IC 555. Understanding and designing of multivibrator circuit	



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