"Education for Knowledge, Science, and Culture"
- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur
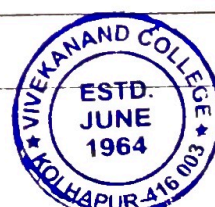## (Autonomous)

KOLHAPUR (AUTONOMOUS)

Department of Electronics

Course Outcomes (Cos): Electronics Department

B.Sc. II Electronics (Implemented from JUNE 2022)	
Semester III	
Paper-V: DSC-1005 C1: Electronic Communication	
CO No.	**After completion of the courses, students will be able to:**
CO1:	Identify the basic concepts of electronic communication.
CO2:	Identity different Modulation & Demodulation schemes for ana communications (AM, FM, PM).
CO3:	Illustrate the various analog Pulse Modulation techniques.
CO4:	Identify the principals of Digital Modulation & Data Communication techniques.
Paper- VI: DSC-1005C2: Microprocessor 8085	
CO1:	Identify various components of Microcomputer system.
CO2:	Identify Architecture of 8085 microprocessor.
CO3:	Familiar with instructions the set and addressing modes of 8085 microprocessor.
CO4:	Write assembly language program for 8085 microprocessor.
Skill Enhancement Course (SEC-1) **Electronic Circuit design and Simulation using Proteus**	
CO1:	Familiar with Proteus Simulation software
CO2:	Design circuit schematics
CO3:	Simulate and analyze Analog circuits
CO4:	Simulate and analyze Digital circuits

Semester: IV

Paper- VII: DSC -1005D1: Operational Amplifier

CO No.	After completion of the courses, students will be able to:
CO1:	Discuss the op-amps basic construction, characteristics, parameters, various configurations.
CO2:	Design various linear and non-linear circuits using op-amp.
CO3:	Design various waveform generators.
CO4:	Design comparators and rectifiers using Op-amp.

Paper- VIII: DSC-1005D2: Microcontroller 8051

CO1:	Identify the building blocks of 8051 microcontroller.
CO2:	Write assembly program for 8051 microcontroller.
CO3:	Demonstrate Timer & Counter programming with 8051 microcontroller.
CO4:	Demonstrate serial & Interrupt programming with 8051 microcontroller.

Skill Enhancement Course (SEC-2)
PCB (Printed circuit board) Designing and fabrication

CO1:	Understand fundamentals of PCB
CO2:	Create and design PCB
CO3:	Develop PCB
CO4:	Etch the PCB and assemble the circuit

(Dr. C. B. Patil)

HEAD
DEPARTMENT OF ELECTRONICS
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)

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JUNE
1964
VIVEKANAND COLLEGE KOLHAPUR 416 003