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

**Shri Swami Vivekanand Shikshan Sanstha's**

# Vivekanand College, Kolhapur
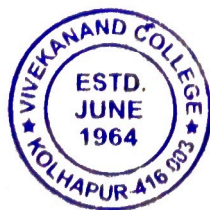## (Autonomous)

KOLHAPUR (AUTONOMOUS)

# Department of Electronics

## Course Outcomes (Cos): Electronics Department

| B.Sc. II Electronics (Implemented from JUNE 2019) | |
|---|---|
| **Semester III** | |
| **Paper-III: DSC-1005 C** <br> **Section-I: Electronic Communication** | |
| **CO No.** | **After completion of the courses, students will be able to:** |
| **CO1:** | Understanding of principles and technologies related to electronic communication systems. |
| **CO2:** | Understand the principles of analog modulation techniques, such as AM and FM, and learn to demodulate signals. |
| **CO3:** | Understand the impact of modulation parameters (e.g., modulation index, deviation) on signal characteristics. |
| **CO4:** | Understand the principles of satellite communication, including orbit types, transponders, and satellite system design |
| **Section-II: Microprocessor 8085** | |
| **CO1:** | Fundamental principles of microcomputer organization, including CPU architecture, memory systems, input/output interfaces, and bus structures. |
| **CO2:** | Identify Architecture and operation of 8085 microprocessor. |
| **CO3:** | Demonstrate a comprehensive understanding of the various instructions in the 8085 microprocessor instruction set. |
| **CO4:** | Proficient in writing 8085 assembly language programs to solve a variety of computational problems. |

## Semester: IV

### Paper- IV: DSC -1005D
### Section I: Advance Communication

| CO No. | After completion of the courses, students will be able to: |
|---|---|
| CO1: | Understanding of analog pulse modulation techniques such as Pulse Amplitude Modulation, Pulse Width Modulation, and Pulse Position Modulation. |
| CO2: | Identify the Principals of Digital Modulation & Data Communication techniques |
| CO3: | Understanding of the architecture, components, and operation of mobile telephony systems, including both cellular networks and mobile devices. |
| CO4: | Understand the mobile communication protocols and wireless technologies. |
| **Section-II: Microcontroller 8051** | |
| CO1: | Identify the building blocks of 8051 microcontroller. |
| CO2: | Write assembly program for 8051 microcontroller. |
| CO3: | Demonstrate Timer, Counter & Serial Port Programming with 8051 microcontroller |
| CO4: | Develop the skills to interface and communicate with external devices. |

**(Mr. D. M. Panhalkar)**
**HEAD**
**DEPARTMENT OF ELECTRONICS**
**VIVEKANAND COLLEGE, KOLHAPUR**
**(AUTONOMOUS)**