



"Dissemination of Education for Knowledge, Science & Culture"
-Shikshanmaharshi Dr. Bapuji Salunkhe

Vivekanand College, Kolhapur (Empowered Autonomous)



Department of Electronics

Course Outcomes (Cos): Electronics Department

B.Sc. II Electronics (Implemented from JUNE 2024) as per NEP-2020	
Semester III	
DSC-V: DSC03ELE31: Electronic Communication System	
CO No.	After completion of the courses, students will be able to:
CO1:	Identify the basic concepts of electronic communication
CO2:	Identify different Modulation & Demodulation schemes for analog communications (AM, FM, PM)
CO3:	Illustrate the various analog Pulse Modulation techniques
CO4:	Identify the principals of Digital Modulation & Data Communication techniques
DSC-VI: DSC03ELE32: Microprocessor 8085	
CO1:	Identify various components of Microcomputer system.
CO2:	Identify Architecture of 8085 microprocessor.
CO3:	Familiar with instructions set and addressing modes of 8085 microprocessor.
CO4:	Write assembly Language programs for 8085 microprocessor.




Semester: IV	
DSC-VII: DSC03ELE41: Operational Amplifier and Applications	
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.
DSC-VIII: DSC03ELE42: 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

B.Sc. II Electronics (Implemented from JUNE 2024) as per NEP-2020	
Semester III	
MIN-V: MIN03ELE31: Principles of Electronic Communication	
CO No.	After completion of the courses, students will be able to:
CO1:	Comprehend the basic elements of electronic communication system.
CO2:	Understand the AM Modulation & Demodulation schemes for analog communications.
CO3:	Understand the FM Modulation & Demodulation schemes for analog communications.
CO4:	Identify the principals of Digital Modulation & Data Communication techniques.
MIN-VI: MIN03ELE32: Architecture of 8051 Microcontroller	
CO1:	Identify the building blocks of 8051 microcontroller.



C02:	Write assembly program for 8051 microcontroller.
C03:	Demonstrate Timer & Counter programming with 8051 microcontroller.
C04:	Demonstrate serial & Interrupt programming with 8051 microcontroller.

Semester: IV	
MIN-VII: MIN03ELE41: Fundamentals of Operational Amplifier	
CO No.	After completion of the courses, students will be able to:
C01:	Understand the op-amps basic construction, characteristics, parameters, various configurations.
C02:	Design various linear circuits using operational amplifiers.
C03:	Design various non-linear circuits using operational amplifiers.
C04:	Design and study various Oscillator circuits using operational amplifiers.
MIN-VIII: MIN03ELE42: 8051 Microcontroller Interfacing and Embedded C	
C01:	Program 8051microcontroller using Embedded C.
C02:	Interface and control various input and output devices using microcontrollers.
C03:	Understand and implement ADC and DAC interfacing techniques effectively.
C04:	Interface various sensors to 8051microcontroller.


(Dr. C. B. Patil)

HEAD
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