

Vivekanand College, Kolhapur (Autonomous)

Department of Electronics

Academic Year: 2022-23

Syllabus Completion Report

Name of the teacher: Dr.C.B.Patil

Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not covered	Remarks
B.Sc.-I	II	DSC-1005B Section-I Analog Electronics-II	Unit 1: Bipolar Junction Transistor: Unit 2: Unipolar Devices Unit 3: Amplifiers Unit 4: Feedback Amplifier and Oscillators	Unit 1: Bipolar Junction Transistor: Unit 2: Unipolar Devices Unit 3: Amplifiers Unit 4: Feedback Amplifier and Oscillators	----	Completed
B.Sc.-II	III	DSC-1005C Section-II Microprocessor 8085	Unit 1: Microcomputer Organization: Unit 2: Architecture of 8085 Microprocessor Unit 3: Instruction Set of 8085 Unit 4: Programming with 8085 Microprocessor	Unit 1: Microcomputer Organization: Unit 2: Architecture of 8085 Microprocessor Unit 3: Instruction Set of 8085 Unit 4: Programming with 8085 Microprocessor	----	Completed
B.Sc.-II	IV	DSC-1005D Section-II Microcontroller 8051	Unit 1: Introduction to 8051 microcontroller Unit 2: Instruction Set of 8051 Unit 3: Timers, Serial port and Interrupts (Assembly) programming of 8051 Unit 4: Interfacing of Devices with 8051	Unit 1: Introduction to 8051 microcontroller Unit 2: Instruction Set of 8051 Unit 3: Timers, Serial port and Interrupts (Assembly) programming of 8051 Unit 4: Interfacing of Devices with 8051	----	Completed
B.Sc.-III	V	DSC-1005E1 Section -II 8051 Microcontroller Interfacing and Embedded C	Unit 1: Introduction to embedded C Unit 2: Real World Interfacing of 8051 Unit 3: Serial communication in 8051 Unit 4: Applications of 8051	Unit 1: Introduction to embedded C Unit 2: Real World Interfacing of 8051 Unit 3: Serial communication in 8051 Unit 4: Applications of 8051	----	Completed
B.Sc.-II	III & IV	Practicals	29 Practicals	29 Practicals	----	Completed
B.Sc.-III	V & VI	Practicals	25 Practicals	25 Practicals	----	Completed

Dr. C. B. Patil



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Academic Year: 2022-23

Statement of Syllabus Covered

Name of the teacher: Mr.P.R.Bagade

Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-II	III	DSC-1005C Section-I Electronics Communication	Unit 1:Electronic Communication Unit 2: Analog Modulation- Demodulation Unit 3: Analog Pulse Modulation Unit 4: Digital Pulse Modulation	Unit 1:Electronic Communication Unit 2: Analog Modulation- Demodulation Unit 3: Analog Pulse Modulation Unit 4: Digital Pulse Modulation	----	Completed
B. Sc-II	IV	DSC-1005D Section-I Advance Communication	Unit 1:Introduction to Operational Amplifier Unit 2: Applications of Op-amp Unit 3: Oscillators Unit 4: Comparators and Rectifiers	Unit 1:Introduction to Operational Amplifier Unit 2: Applications of Op-amp Unit 3: Oscillators Unit 4: Comparators and Rectifiers	----	Completed
B. Sc-III	V	DSC-1005E2 Section -II Antenna and Wave Propagation	Unit 1:Antenna Basics Unit 2: Antenna as a Transmitter Unit 3: Radiating wire Structures Unit 4: Radio Wave Propagation	Unit 1:Antenna Basics Unit 2: Antenna as a Transmitter Unit 3: Radiating wire Structures Unit 4: Radio Wave Propagation	----	Completed
B. Sc-III	VI	DSC-1005F2 Section - I Power Electronics	Unit 1:Power semiconductor devices Unit 2: Thyristors Unit 3: Controlled Rectifiers Unit 4: Power Systems	Unit 1:Power semiconductor devices Unit 2: Thyristors Unit 3: Controlled Rectifiers Unit 4: Power Systems	----	Completed
B. Sc-II	III & IV	SEC : Skill Enhancement Experiments	12 Practicals	12 Practicals	----	Completed
B. Sc-II	III & IV	Practicals	32 Practicals	32 Practicals	----	Completed
B. Sc-III	V & VI	Practicals	52 Practicals	52 Practicals	----	Completed

Mr. P. R. Bagade

Dr. C. B. Patil

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Academic Year: 2022-23

Syllabus Completion Report

Name of the teacher: Mr. N. P. Mote

Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not Covered	Remarks
B.Sc.-III	V	DSC-1005E2 Instrumentation, Antenna and Wave Propagation	Unit 2: Transducers and Sensors Unit 3: Signal Conditioning and Data Acquisition System Unit 4: Digital Instruments	Unit 2: Transducers and Sensors Unit 3: Signal Conditioning and Data Acquisition System Unit 4: Digital Instruments	----	Completed
B.Sc.-III	V & VI	Practicals	14 Practicals	14 Practicals	----	Completed
B.Sc.-II	III & IV	Practicals	25 Practicals	25 Practicals	----	Completed
B. Sc-II	IV	SEC 2: Skill Enhancement Experiments	5 Practicals	5 Practicals	----	Completed


Mr. N. P. Mote




Dr. C. B. Patil

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Academic Year: 2022-23

Syllabus Completion Report

Name of the teacher: Dr. Milind S. Patil

Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc.-III	V	DSC-1005E2 Section – II Instrumentation, Antenna and Wave Propagation	Unit 1: Measurements, Instrument & Calibration	Unit 1: Measurements, Instrument & Calibration	----	Completed
B. Sc-III	VI	DSE1005 F1 Section II Industrial Process Control, PLC Programming and Advanced Microcontroller and Embedded System	Unit 1: Embedded Systems Design Unit 2: Introduction to AVR microcontroller Unit 3: AVR programming in C Unit 4: Peripheral interfacing and embedded system Unit 5: Designing of an Embedded System	Unit 1: Embedded Systems Design Unit 2: Introduction to AVR microcontroller Unit 3: AVR programming in C Unit 4: Peripheral interfacing and embedded system Unit 5: Designing of an Embedded System	----	Completed
B.Sc.-II	III & IV	Practicals	15 Practicals	15 Practicals	----	Completed
B.Sc.-III	V & VI	Practicals	27 Practicals	27 Practicals	----	Completed
B.Sc.-III	VI	SEC 4 Introduction to Arduino and IoT	Unit 3: Interfacing sensors: Unit 4: Introduction to IoT	Unit 3: Interfacing sensors: Unit 4: Introduction to IoT	----	Completed

Dr. M.S. Patil

Dr. C. B. Patil



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Academic Year: 2022-23

Syllabus Completion Report

Name of the teacher: Dr. P. S. Jadhav

Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc.-I	I	DSC-1005A Section-II Digital Electronics I	Unit-1: Number System, Binary Codes and Binary Arithmetic: Unit 2: Logic Gates, Boolean algebra Unit 3: Logic Families Unit 4: Combinational circuits	Unit-1: Number System, Binary Codes and Binary Arithmetic: Unit 2: Logic Gates, Boolean algebra Unit 3: Logic Families Unit 4: Combinational circuits	----	Completed
B.Sc.-I	II	DSC-1005B Section-II Digital Electronics II	Unit-1: Sequential Circuit Unit-2: Shift registers and Counters	Unit-1: Sequential Circuit Unit-2: Shift registers and Counters	----	Completed
B.Sc.-III	V	DSC-1005E2 Section -I Linear Integrated Circuit	Unit 1: Operational Amplifier and Linear IC's Unit 2: Applications of Op-amp Unit 3: Precision Rectifier and Active filters Unit 4: Phase Locked Loops (PLL)	Unit 1: Operational Amplifier and Linear IC's Unit 2: Applications of Op-amp Unit 3: Precision Rectifier and Active filters Unit 4: Phase Locked Loops (PLL)	----	Completed
B.Sc.-III	VI	DSC-1005F2 Section - II FPGA and VHDL Programming	Unit 1: Introduction to Programmable Logic Devices Unit 2: Basics of VHDL Unit 3: VHDL Programming Unit 4: Sequential and Combinational Circuit Design	Unit 1: Introduction to Programmable Logic Devices Unit 2: Basics of VHDL Unit 3: VHDL Programming Unit 4: Sequential and Combinational Circuit Design	----	Completed
B.Sc.-I	I & II	Practicals	25 Practicals (2.5 batches)	25 Practicals (2.5 batches)	----	Completed
B.Sc.-III	VI	SEC-4	Unit 1: Introduction to Arduino Board & Accessories : Unit 2: Display Interfacing:	Unit 1: Introduction to Arduino Board & Accessories : Unit 2: Display Interfacing:	----	Completed

P.S. Jadhav
Dr. P.S. Jadhav



C.B. Patil
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Academic Year: 2022-23

Syllabus Completion Report

Name of the teacher: Mr.G. B. Jirage
Subject: Electronics

Class	Semester	Course Title	Syllabus Assigned	Syllabus Covered	Syllabus Not Covered	Remarks
B.Sc-I	I	DSC-1005A Section-I Analog Electronics	Unit 1: Basic Circuit Elements Unit 2: Circuit Analysis Unit 3: PN Junction Diode Unit 4: DC Power Supply	Unit 1: Basic Circuit Elements Unit 2: Circuit Analysis Unit 3: PN Junction Diode Unit 4: DC Power Supply	----	Completed
B.Sc-I	II	DSC-1005B Section-I Digital Electronics	Unit 3: Data converters Unit 4: Study of Timer IC 555	Unit 3: Data converters Unit 4: Study of Timer IC 555	----	Completed
B. Sc-III	VI	DSC-1005F1 Section I : Industrial Process control and PLC programming	Unit 1:Introduction to control system Unit 2:Components of control system Unit 3: Introduction to PLC Unit 4: Ladder programming Basics	Unit 1:Introduction to control system Unit 2:Components of control system Unit 3: Introduction to PLC Unit 4: Ladder programming Basics	----	Completed
B. Sc-I	I & II	Practicals	25 Practicals (2.5 batches)	25 Practicals(2.5 batches)	----	Completed
B. Sc-III	V	SEC-3	Unit 1: Introduction Renewable Energy Unit 2: Solar energy Unit 3: Wind Energy harvesting Unit 4: Ocean Energy and Geothermal Energy, Hydro Energy: Unit 5:Piezoelectric Energy harvesting	Unit 1: Introduction Renewable Energy Unit 2: Solar energy Unit 3: Wind Energy harvesting Unit 4: Ocean Energy and Geothermal Energy, Hydro Energy: Unit 5:Piezoelectric Energy harvesting	----	Completed

Mr. G. B. Jirage



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