Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

Shri Mulikadevi Mahavidyalaya, Nighoj

Tal-Parner, Dist-Ahmednagar

DEPARTMENT OF ELECTRONICS

Course Outcome 2020-21

Course Offered

Sr.No.	Course	Course Outcomes
1.	**F.Y.B.Sc Electronic** ‘’ Basics of Applied Electronics’’ (EL-111)	1.To identify different parameter/function/specification of components used inelectronic circuits. 2.To solve problems based on network theorems. 3.To perform simulations using simulator for analyzingnetwork performance.
2.	**F.Y.B.Sc Electronics** ‘’Electronic Devices and Circuits’’ (EL-112)	1.To analyze performance parameter based on study of characteristics of electronicdevices like diode ,transisters etc. 2.To choose proper electronic devices as per the need of application. 3.To perform simulations for designing and analyzing diode/transistor circuits.
3.	**F.Y.B.Sc Electronics** ‘’Practical’’ (EL-113)	1. To identify different component and devices as well astheirtypes. 2. To understand basic parameter associated with each devices. 3. To know operation of different instrument used in the laboratory.

		4. To connect circuit and do required performance analysis.
4.	**F.Y.B.Sc Electronics** ''Fundamentals of Digital Electronic'' (EL121)	1.To solve problems based on interconversion of number system 2.To reduse the experession using boolean theorems. 3.To reduced expression using k-map in SOP and POS forms. 4.To undestand how to used flip-flop to build modulus counter.
5.	**F.Y.B.Sc Electronics '' Analog And Digital Device Application** '' (EL-122)	1.To compare different opamp as per specification or performance parameter. 2. To understand opamp circuits and its usefulness indifferent application. 3.To know operating principle of IC 555 in different configurations. 4. To understand different types of DAC and their performance parameters. 5. To study different types of ADC and their performance parameters .
6.	**F.Y.B.Sc Electronics** ''Practical'' (EL-123)	1. To connect opamp circuits and analyyzetheoutput 2.To bild application circuits of opamp. 3. To design the output frequency of IC 555 as a stable/monostable multivibrator. 4. To compare simulated and actual results of given circuit.
7.	**S.Y.B.Sc Electronics** ''Communication Electronics'' (EL231)	1. Understand different blocks in communication systems, types of noise in communication systems and its different parameters. 2. Understand need of modulation, modulation process and amplitude modulation and demodulation methods. 3. Analyse generation of FM Modulation and demodulation methods and comprison between amplitude and frequency modulation. 4. Identify different radio receivers and their

		performance parameters. 5. Solve problems based on AM and FM performance parameters.
8.	**S.Y.B.Sc Electronics** ''Digital Circuit Design'' (EL 232)	1. Distinguish between different logic families based on their performance parameters. 2. Analyze basic combination logic circuit for simple applications 3.Design sequential logic circuit using state diagram,excitation table for identified application
9.	**S.Y.B.Sc Electronics** ''Practical'' (EL233)	1.Describe and exaplion the techniques of generation of AM/FM and demodulation. 2.Desion FSK generation using standard IC XR 2206 refering data manuals 3.Describe and explion the TDM/FDM generation technique. 4.Demonstrate PPM/PWM/PAM and PCM techniques using standard circuit in datd manuals. 5.Desion and built minimum complxity digital circuits using logic gates
10.	**S.Y.B.Sc Electronics** ''Analog Circuits Desion'' (EL-241)	1.Desion single/multistate amplification using transistor and analyze their frequency resonse base on gain-bandwitdth product due to coupling/bypass capacitors 2.Classify and compare different power amplifiers 3.Understand and desion push pull amplfier and need of heat sink. 4.Distinguish between Opamp feedback circuits based on their configuration.
11.	**S.Y.B.Sc Electronics** ''Microcontroller	1.Identify the features and architectural details of microcontrolar(arduiono) 2.Write code/program using open source programming language(arduiono)for basic identified application. 3.Understand programming basic of python programming language. 4.Understand special features of python

	and Python Programming'' (EL242 A)	programming language such as importing modules,directory,tupules
12.	**S.Y.B.Sc Electronics** ''Practical'' (EL243)	1.Describe and explain the desingn procedure of different types of active filters and analyze its frequency responce. 2.Demonstrate positive feedback foroscillator circuits using standard IC's. 3.Desing practical circuits for identified applications. 4.Solve problems using programming techniques of python.