Department of Electronics

Under Graduation (UG)

After Successful completion of three year degree programme in (B.Sc. Electronics) a student should be able to…		
Sr. No	**Programme Outcomes(PO's)**	**Programme Specific Outcome(PSO's)**
1	To make student capable of studying Electronics in academic and Industrial courses.	To develop the ability to apply the knowledge of content of principle of Electronics.
2	To promote understanding of basic facts and concept in Electronics while retaining the excitement of Electronics.	To develop ability and to acquire the knowledge of terms facts and concepts processes technique and principle of subject.
3	To expose the student to various emerging new areas of Electronics	To enquire the new knowledge of Electronics and development therein.
4	To develop problem solving skills in students.	To develop ability of students and motivate them to apply advanced concepts of Electronics to solve real life problems.
5	To expose the student to different processes used in Industrial and their applications.	To prepare the students for successful career in industry and motivate them for higher education.
6	To develop proper attitude towards the subject.	To provide exposure to the students for analyzing electronics problems.
7	To develop software skills in students.	To provide necessary foundation on computational platforms and software simulation tools.

Course Outcomes

Semester-I (F.Y.B.Sc. Electronics)

After Successful completion of these courses student should be able to……		
Sr. No	Courses	Outcomes
1	ELE-101:- Network Analysis and Semiconductor Diode	1. Know the characteristics of basic electronics components. 2. Apply knowledge to develop circuits using electronic devices. 3. Understand and analyze linear electronic circuits.
2	ELE-102:- Digital Integrated Circuits	1. Understand various codes used in data processing 2. Use of logic gate and Boolean algebra for minimize the circuit. 3. Understand the function and need of sequential circuits in digital design.
3	ELE-103:- ELECTRONICS LAB -I	1 Identify the of basic electronics components. 2 Apply the concept and knowledge of electronics devices to real life problems. 3 Review, prepare and present technological developments.

Course Outcomes

Semester-II (F.Y.B.Sc. Electronics)

After Successful completion of these courses student should be able to……		
Sr. No	Courses	Outcomes
1	ELE-201:- Analog Electronics	1. Know the characteristics transistor 2.Understand the function and need of Amplifiers. 3. Understand the function and need of feedback in oscillators.
2	ELE-202:- Linear Integrated Circuits	1. Understand function of operational amplifiers 2. Use of operational amplifiers 3. Understand the function digital and analog converters
3	ELE-203:- ELECTRONICS LAB -II	1. Apply the concept and knowledge of integrated circuit chips to develop new systems. 2. Model complex circuits and simulate them. 3. Handle simulation software to analyze electronics circuits.

Course Outcomes

Semester-III (S.Y.B.Sc. Electronics)

After Successful completion of these courses student should be able to……		
Sr. No	Courses	Outcomes
1	ELE-301:- Analog Communication	1. Understand and identify the fundamental concepts and various components of analog communication systems. 2. Apply knowledge to develop circuits of analog modulation and demodulation. 3. Analyze modulation circuits and understand the behavior of the systems.
2	ELE-302:-Microprocessors and Applications	1. Understand and analyze 8085 microprocessor and its programming. 2. Apply the concept and knowledge of microprocessors to real life problems. 3. Develop interfacing to real world devices.
3	ELE-303:- ELECTRONICS LAB –III	1. Identify and describe different analog modulation techniques. 2. Analyze AM radio receiver. 3. Learn use of hardware & software tools.
4	ELE-304:- Electrical Circuits and Network Skills	1 Measurement of R,L,C, Voltage, Current, Power Factor, Power. 2. Measure frequency, phase with Oscilloscope 3. Use Digital voltmeters

Course Outcomes

Semester-IV (S.Y.B.Sc. Electronics)

After Successful completion of these courses student should be able to……		
Sr. No	Courses	Outcomes
1	ELE-401:- Digital Communication	1. Understand and identify the fundamental concepts and various components of digital Communication systems. 2. Apply the concept and knowledge of digital communication to develop new systems. 3. To understand Multiple Access and Spread Spectrum Techniques for mobile and cellular communication system.
2	ELE-402:-Microcontrollers and Applications	1. Learn importance of Microcontroller in designing real time applications 2. Gain knowledge of microcontroller programming. 3. Apply practical knowledge of microcontrollers to solve real life problems of the society.
3	ELE-403:- ELECTRONICS LAB -IV	1. Identify and describe different digital modulation techniques. 2. Develop interfacing to real world devices using microcontroller. 3. Learn use of hardware & software tools.
4	ELE-404:- Computational Techniques in Electronics	1. Evaluate the True roots using Bisection method. 2. To understand the Gauss Elimination Method. 3.Write numerical programs, such as C Language programs, to solve the problems;