

DEPARTMENT OF ELECTRONICS
COURSE OUTCOME (CO) & PROGRAM OUTCOME- CBCS SYSTEM
YEAR OF INTRODUCTION:
B.SC (GENERAL)

SEMESTER	COURSE CODE	THEORY/ PRACTICAL	COURSE NAME	COURSE OUTCOME
SEMESTER-1	CC-1/GE-1	THEORY	Network Analysis and Analog Electronics	From this section students can acquire basic theoretical knowledge on analog type of electronic circuits and various electronic components used in this context.
		PRACTICAL	Network Analysis and Analog Electronics Lab	In this section students learn to design analog electronics circuits and can observe circuit operations directly
SEMESTER-2	CC-2/GE-2	THEORY	Linear and Digital Integrated Circuits	From this section students can acquire basic theoretical knowledge on digital type of electronic circuits and various electronic components used in this context.
		PRACTICAL	Linear and Digital Integrated Circuits Lab	In this section students learn to design digital electronics circuits and can observe circuit operations directly
SEMESTER-3	CC-3/GE-3	THEORY	Communication Electronics	In this section students acquire knowledge on modern communication techniques and get brief idea about various signals and components related to it.
		PRACTICAL	Communication Electronics Lab	In this section students learn to design basic communication circuits to observe various signal patterns related to it.
SEMESTER-4	CC-4/GE-4	THEORY	Microprocessors and Microcontrollers	In this section students get brief idea on basic features of both microcontroller and microprocessor
		PRACTICAL	Microprocessors and Microcontrollers Lab	In this section students learn to write small programs and verify them using microcontroller and microprocessor.

Discipline Specific Elective (DSE)				
SEMESTER-5	DSE-1A: Option-1	THEORY	Semiconductor Devices Fabrication	In this section students get knowledge on semiconductor device design.
		PRACTICAL	Semiconductor Devices Fabrication Lab	In this section students get to learn about some semiconductor devices operations
	DSE-1A: Option-2	THEORY	Photonic Devices and Power Electronics	In this section students get knowledge on photonic device design.
		PRACTICAL	Photonic Devices and Power Electronics Lab	In this section students get to learn about some photonic devices operations
SEMESTER-6	DSE-1B: Option-1	THEORY	Electronic Instrumentation	In this section students get brief knowledge on some electronic instruments.
		PRACTICAL	Electronic Instrumentation Lab	In this section students get to learn about some electronic instruments operation .
	DSE-1B: Option-2	THEORY	Transmission Lines, Antenna and Radio Wave Propagation	In this section students get brief knowledge on some microwave devices.
		PRACTICAL	Transmission Lines, Antenna and Radio Wave Propagation Lab	In this section students get to learn about some microwave devices operation .
Skill Enhancement Course (SEC)				
SEMESTER-5	SEC-A: Option-1	THEORY	Computational Physics	In this section students know about some mathematical operations used in physics and electronics.
	SEC-A: Option-2	THEORY	Renewable Energy and Energy Harvesting	In this section students get knowledge on some energy sources other than conventional.
SEMESTER-6	SEC-B: Option-1	THEORY	Electrical Circuits and Network Skills	In this section students learn to analyze and design various electrical circuits
	SEC-B: Option-2	THEORY	Technical Drawing	In this section students can learn some technical designing tools

Programme Outcome

- **Students will be entirely equipped with the knowledge of all the branches of Electronics**
- **Their logical skill will be improved.**
- **Practical knowledge on application of different branches of electronics is enhanced.**
- **Students would have a strong understanding on circuit design and operations of various electronics components and devices.**
- **Students will be equipped with electrical and various electronics related techniques which can be applied in both academic and non-academic areas of work.**
- **Students will have placements scopes in academic areas include jobs as teaching faculties in schools, colleges, business schools, training schools**
- **Students will have placements scopes in research positions in different research institutes.**
- **Students will have placements scopes in non – academic areas include jobs in sectors like Telecom industry, IT and other technological areas related to electronics.**