

COs (2022-23)

3rd SEM

S. No.	Paper Code	Paper/COs
1	ES-201	Computational Methods
	ES-201.1	Ability to develop mathematical models of low level engineering problems.
	ES-201.2	Ability to apply interpolation methods and numerical integration.
	ES-201.3	Ability to solve simultaneous linear equations and curve fitting by splines.
	ES-201.4	Ability to numerically solve ordinary differential equations that are initial value or boundary value problems .
2	HS-203	Indian Knowledge System
	HS-203.1	Ability to understand the Indian knowledge System.
	HS-203.2	Ability to understand and apply foundational concepts for science and technology.
	HS-203.3	Ability to understand and apply ancient Indian mathematics and astronomy.
	HS-203.4	Ability to understand ancient Indian engineering and technology.
3	ECC-205	Signal and system
	ECC-205.1	Ability to understand about various types of signals and systems, classify them, analyze them, and perform various operations on them.
	ECC-205.2	Ability to understand use of transforms in analysis of signals and system.
	ECC-205.3	Ability to carry out simulation on signals and systems for observing effects of applying various properties and operations
	ECC-205.4	Ability to create strong foundation of communication and signal processing to be studied in the subsequently.
4	EEC-209	Electrical Materials
	EEC-209.1	Ability to understand properties and applications of conducting materials.
	EEC-209.2	Ability to understand properties and applications of insulating materials.
	EEC-209.3	Ability to understand properties and applications of magnetic materials.
	EEC-209.4	Ability to understand properties and applications of special materials.
5	EEC-211	Electrical Machine-I
	CIC-211 .1	Ability to understand the magnetic circuit and working of EMEC devices.
	CIC-211 .2	Ability to understand the working and applications of DC motors.
	CIC-211 .3	Ability to analyse of single phase transformer and solution of numerical problems.
	CIC-211 .4	Ability to analyse of three phase transformer and solution of numerical problems.

6	ECC-213	Electromagnetic Field Theory
	ES-251.1	Ability to understand the basic laws of electrostatics.
	ES-251.2	To understand the basic laws of electromagnetics.
	ES-251.3	Ability to provide solution of real life plan wave problems for various boundary conditions.
	ES-251.4	To understand the characteristics and impedance transformation on high frequency transmission lines
7	ECC-215	Electronics-I
	ECC-215.1	The students are able to understand the working of various diodes.
	ECC-215.2	The students are able to understand the working of transistor and their applications.
	ECC-215.3	The students are able to understand the function of logic gates and design of combinational logic circuits
	ECC-215.4	The students are able to understand the function and design of sequential logic circuits.
8	ES-251	Computational Method Lab
	ECC-251.1	Ability to develop mathematical models of low level engineering problems.
	ECC-251.2	Ability to apply interpolation methods and numerical integration.
	ECC-251.3	Ability to solve simultaneous linear equations and curve fitting by splines.
	ECC-251.4	Ability to numerically solve ordinary differential equations that are initial value or boundary value problems .
9	EEC-257	Electrical Machines-I Lab
	ECC-257.1	Ability to understand the magnetic circuit and working of EMEC devices.
	ECC-257.2	Ability to understand the working and applications of DC motors.
	ECC-257.3	Ability to analyse of single phase transformer and solution of numerical problems.
	ECC-257.4	Ability to analyse of three phase transformer and solution of numerical problems.
10	EEC-259	Electrical Engineering Workshop
	EEC-259.1	To Impart the knowledge components and design of DC power supply.
	EEC-259.2	To Impart the knowledge of components and accessories used in electrical installations.
	EEC-259.3	To Impart the knowledge of various illumination devices.
	EEC-259.4	To Impart the knowledge of fabrication of transformer and its testing.
11	ECC-261	Electronic-I Lab
	CIC-257.1	The students are able to understand the working of various diodes.
	CIC-257.2	The students are able to understand the working of transistor and their applications.
	CIC-257.3	The students are able to understand the function of logic gates and design of combinational logic circuits
	CIC-257.4	The students are able to understand the function and design of sequential logic circuits.

4th SEM

12	BS-202	Probability, Statistics and Linear Programming
	BS-202.1	Ability to solve probability problems and describe probability distributions.
	BS-202.2	Ability to describe and summarize data.
	BS-202.3	Ability to use test for hypothesis.
	BS-202.4	Ability to formulate and solve linear programming problems.
13	HS-204	Technical Writing
	HS-204.1	Ability to improve grammar and sentence structure and build vocabulary.
	HS-204.2	Ability to write different types of writings with clarity.
	HS-204.3	Ability to write different types of business documents.
	HS-204.4	Ability to apply business ethics and enhance personality.
14	EEC-206	Network analysis and synthesis
	EEC-206 .1	Ability to determine function from waveform.
	EEC-206 .2	Ability to determine transient respond of circuit.
	EEC-206 .3	Ability to determine two port parameter of circuit.
	EEC-206 .4	Ability to realize the circuit from their transfer function.
15	EEC-210	Electrical Machines-II
	EEC-210.1	Ability to analyse the synchronous generator.
	EEC-210.2	Ability to analyse ofthree phase induction motor
	EEC-210.3	Ability to analyse of synchronous motor.
	EEC-210.4	Ability to analyse ofsingle phase motor.
16	EEC-212	Power System-1
	EEC-212.1	Ability to calculate the transmission line parameters.
	EEC-212.2	Ability to analyse performance of transmission line.
	EEC-212.3	Ability to understand working of cables.
	EEC-212.4	Ability to solve load flow in power system.
17	ECC-218	Electronics-II
	ECC-218.1	Ability to solve problems related to amplifier circuits.
	ECC-218.2	Ability to apply the amplifiers circuits in real world.
	ECC-218.3	Ability to analyse various operational amplifier circuits.
	ECC-218.4	Ability to understand the function of various waveform generators.

18	BS-252	Probability, Statistics and Linear Programming Lab
	BS-252 .1	Ability to solve probability problems and describe probability distributions.
	BS-252 .2	Ability to describe and summarize data.
	BS-252 .3	Ability to use test for hypothesis.
	BS-252 .4	Ability to formulate and solve linear programming problems.
19	EEC-256	Electrical Machine-II Lab
	EEC-256.1	Ability to analyse the synchronous generator.
	EEC-256.2	Ability to analyse ofthree phase induction motor
	EEC-256.3	Ability to analyse of synchronous motor.
	EEC-256.4	Ability to analyse ofsingle phase motor.
20	EEC-260	Power System-1 Lab
	EEC-260.1	Ability to calculate the transmission line parameters.
	EEC-260.2	Ability to analyse performance of transmission line.
	EEC-260.3	Ability to understand working of cables.
	EEC-260.4	Ability to solve load flow in power system.
21	EEC-262	Network nalysis and synthesis Lab
	EEC-262.1	Ability to determine function from waveform.
	EEC-262.2	Ability to determine transient respond of circuit.
	EEC-262.3	Ability to determine two port parameter of circuit.
	EEC-262.4	Ability to realize the circuit from their transfer function.
22	EEC-264	Electronics-II Lab
	EEC-264.1	Ability to solve problems related to amplifier circuits.
	EEC-264.2	Ability to apply the amplifiers circuits in real world.
	EEC-264.3	Ability to analyse various operational amplifier circuits.
	EEC-264.4	Ability to understand the function of various waveform generators.