

SRI VASAVI INSTITUTE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

COUSE OUTCOMES SUMMARY III-I EEE A.Y:2020-21

CO#	COUSE OUTCOMES SUMMARY III-I EEE A.Y:2020-21	
CO#	CO STATEMENT	BTL
C211.1	Power Systems-II(C311)	
C311.1	Calculate parameters of various types of transmission lines during different operating	
C311.2	Teomations.	Apply
C311.2	Analyze the performance of short and medium transmission lines.	Analyze
	Analyze the Performance of Long Transmission Lines	Analyze
C311.4	Evaluate reflection & Refraction Coefficients of travalling ways on transmission lines	Apply
C311.5	1. mary 20 various factors related to charged transmission lines	Analyze ·
C311.0	Determine sag/tension of transmission lines and performance of line Insulators	
· ·	Canculate String efficiency	Apply
C312.1	Renewable Energy Sources & Systems (C312)	
C312.1	Analyze solar radiation data, extraterritorial radiation, radiation on earth's surface	Analyze
C312.2	Design solar thermal collections	Design
C312.3	Design solar photo voltaic systems.	Design
C312.4	Develop maximum power point techniques in solar PV and wind	Design
	Determine Betz coefficient, tip speed ratio in wind energy conversion systems	
C312.6	Evaluate the efficiency of hydro, tidal, biomass, fuel cell and geothermal systems	Apply
	Signals and Systems (C313)	Apply
C313.1	Define signals and systems, classify the signals, Systems and apply different operations	·
	Ton signar	Undonstand
C313.2	Determine Fourier series coefficient and Fourier transforms for different types of signals.	Understand
C313.3	Apply sampling theorem to convert continues time signals to discrete time signal and	Apply
	reconstruct back.	
C313.4	Understand the Concepts of convolution, correlation, Energy and Power density	Apply
	spectrum and their relationships.	
C313.5	Apply Laplace- Transform technique to analyze the continuous time systems represented	Understand
	by Linear Differential Equations & able to decide the stability of a system as well.	
C313.6	Apply Z- Transform technique to analyze the 'Discrete Time' systems represented by	Apply
	'Difference Equations'	
	Pulse & Digital Circuits (C314)	Apply
C314.1	Design linear wave shaping circuits and derive the expressions for different input signals	
	and apply as Integrator & Differentiator.	Create
C314.2	Design various clipping, clamping circuits and illustrate the clause	
C314.3	Illustrate how the transistor acts as a switch and understand the switching times of the	Create
	transistor , .	Apply
C314.4	Design Multivibrators for various applications such as voltage to frequency converter,	
	voltage to time converter etc	Create
C314.5	Illustrate the operation of Miller time base generator and bootstrap time base generator	
	faild OJT saw tooth generator.	Analyze
C314.6	Illustrate logic gates and sampling gates with the help of diodes and transistors	
	Power Electronics (C315)	Apply
C315.1	Analyze the behavior of the various power semiconductor devices	
C315.2	Design AC-DC Single Phase Converters	Analyze
C315.3	Design AC-DC Three Phase Converters.	Create
C315.4	Design DC-DC Single Phase Converters	Create
C315.5	Design DC-AC Single & Three Phase Converters.	Create
C315.6	Design AC-AC Single & Three Phase Regulators.	Create
	U	· Create