



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

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

CO#	CO STATEMENT	BTL
<b>Utilization of Electrical Energy(C411)</b>		
C411.1	Select a suitable motor for a given choice of load	Apply
C411.2	Choose suitable heating and welding method for given load	Evaluate
C411.3	Analyze the illumination levels of a light source.	Analyze
C411.4	Design different lighting schemes using various illumination methods.	Create
C411.5	Analyze speed-time curves of electric traction system	Analyze
C411.6	Calculate the parameters of electric traction system	Apply
<b>Linear IC Applications(C412)</b>		
C412.1	Identify different configurations of op-amp analyze the parameters of op-amp and observe the frequency response of operational amplifier	Analyze
C412.2	Understand non ideal characteristics of operational amplifier parameters	Understand
C412.3	Demonstrate linear and non applications of operational amplifiers	Apply
C412.4	Select active filter, multipliers and modulators according to the required application	Apply
C412.5	Implement various applications of special function Op-Amp ICs such as 555 IC and Analog multiplier, PLL.	Analyze
C412.6	Demonstrate and compare the performance of various types of ADC and DAC using Op-Amp	Apply
<b>Power System Operation &amp; Control(C413)</b>		
C413.1	Determine optimal scheduling of Generators	Apply
C413.2	Analyze hydrothermal scheduling	Analyze
C413.3	Determine the unit commitment problem	Apply
C413.4	Determine the load frequency control for single area system	Apply
C413.5	Analyze PID controllers in single area and two area systems	Analyze
C413.6	Analyze reactive power control and line power compensaing system.	Analyze
<b>Switchgear and Protection(C414)</b>		
C414.1	Understand the principles of arc interruption for application to high voltage circuit breakers of air, oil, vacuum, SF6 gas type.	Apply
C414.2	Understand the working principle and constructional features of different types of electromagnetic protective relays.	Analyze
C414.3	Acquire in depth knowledge of faults that is observed to occur in high power generator	Apply
C414.4	Improves the ability to understand various types of protective schemes used for feeders and bus bar protection	Analyze
C414.5	Generates understanding of different types of static relays with a view to application in the system	Apply
C414.6	Understand the different types of over voltages appearing in the system	Apply
<b>Instrumentation(C415)</b>		
C415.1	Represent various types of signals	Understand
C415.2	Use various types of transducers	Apply
C415.3	Measure various parameters such as strain, velocity, temperature, pressure	Apply
C415.4	Use various types of digital voltmeters.	Apply
C415.5	Measure various parameter like phase and frequency of a signal with the help of CRO.	Apply
C415.6	Measure various parameter like phase and frequency of a signal with the help of CRO.	Apply
<b>Electric Power Quality(C416)</b>		
C416.1	Differentiate between different types of power quality problems	Understand
C416.2	Illustrate the sources of disturbances in a power system	Apply
C416.3	Analyze power quality terms and power quality standards	Analyze
C416.4	Illustrate the principle of voltage regulation and power factor improvement methods	Apply
C416.5	Demonstrate the relationship between distributed generation and power quality	Apply
C416.6	Illustrate the power quality monitoring concepts and the usage of measuring instruments	Apply

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