CHOUKSEY ENGINEERING COLLEGE DEPARTEMENT OF ELECTRICAL & ELECTRONICS ENGINEERING B.Tech Fifth Semester

Subject Name- Signal and system	Subject Code- C025511(025)

- 1. Students will understand the role of signals and systems in engineering design.
- 2. Students will have the understanding of the use of signals and basic system building blocks and their roles in large/complex system design.
- 3. Students will understand signal representation techniques and signal characteristics.
- 4. Students will understand the difference and the applications of analog versus discrete signals and the conversion between them.
- 5. Students will understand the process of sampling and the effects of under-sampling.
- 6. Students will understand the Fourier, Laplace and z-transforms

- 1. Ability to acquire and apply fundamental principles of science and technology. Analyze continuous systems mathematically through the use of Laplace functions and state equations form.
- 2. Represent any physical system in both transfer functions and state equations form.
- 3. Apply classical design methods to improve the performance of continuous controlled system.

Subject Name- Electrical power System-ISubject Code- C025513(025)

- 1. Student will be to calculate the resistance, inductance and capacitance of transmission line.
- 2. Student will be able to learn how to model the element in power system and able to carry out studies of load flow, transient stability, harmonics and other relevant studies.
- 3. Student will be able to calculate the voltage regulation of line and analyze the voltage profile of the transmission line.
- 4. Student will gain an understanding of VAR control using component to improve p.f, location of capacitor, operation of load tap changing can be examine.
- 5. Student will be able to calculate the sag, tension and mechanical stress of a transmission line.
- 6. Student will be able to learn different types of conductor and cable with its performance.
- 7. Student will able to understand the effect of surges in line.

Subject Name- Micro Processor And Micro Controller	Subject Code- C025514(025)

- 1. Understand the basic architecture of Microprocessor 8085 Microcontroller 8051.
- 2. Understand various instructions and their application in programming.
- 3. Understand memory organization and mapping.

Subject Name- Linear Integrated CircuitsSubject Code- C025531(025)

- 1. The students will have a thorough understanding of operational amplifiers with linear integrated circuits.
- 2. The students will be able to design circuits using operational amplifiers for various applications.

Subject Name- Testing & Commissioning of ElectricalSubject Code- C025535(025)Equipments

- 1. After studying the subject students will be able to understand.
- 2. The common problems arising while commissioning of electric equipments.
- 3. Learn about the routine tests to be performed and maintenance measures for various equipments

Subject Name- Electrical Power System-I lab	Subject Code- C025511(025)
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- 1. Compute the transmission line's capacitance, inductance, and resistance.
- 2. Study load flow, transient stability, harmonics, and other pertinent topics, and they should be able to model the element in a power system.
- 3. Compute the line's voltage regulation and examine the transmission line's voltage profile.
- 4. Learn about VAR control by utilizing components to increase p.f., locate capacitors, and check load tap changing action.
- 5. Determine a transmission line's sag, tension, and mechanical stress.
- 6. Learn about various conductor and cable types.
- 7. Comprehend the outcome of surges in line.

Subject Name- Control System lab Subject Code- C025521(025)

- 1. Learn and use basic scientific and technological concepts.
- 2. Apply state equation form and Laplace functions to mathematically analyze continuous systems.
- 3. Use state equations and transfer functions to represent any physical system.
- 4. Use traditional design techniques to enhance the continuous controlled system's performance.

Subject Name- Micro Processor and Micro Controller Lab	Subject Code- C025523(025)
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- 1. Develop a strong foundation in the architecture, programming, and functioning of microprocessors and microcontrollers.
- 2. Acquire proficiency in assembly language programming and debugging techniques for real-time problem-solving.
- 3. Design and integrate microprocessor and microcontroller-based systems for various real-world applications, such as automation, control systems, and IoT devices.
- 4. Analyze and optimize microcontroller-based systems for efficiency, costeffectiveness, and scalability in industrial and academic projects.