**19EC31P2 – ANALOG COMMUNICATION LAB**

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| **Course Category:** | Program Core | **Credits:** | 1.5 |
| **Course Type:** | Practical | **Lecture-Tutorial- Practice:** | 0 - 0 - 3 |
| **Prerequisite:** | Electronic Devices and Circuits,Signals and Systems | **Sessional Evaluation:****External Evaluation :****Total Marks:** | 4060100 |
| **Course****Objectives** | Students undergoing this course are expected tounderstand: |
| 1. The design and analysis of various communication circuits.2. To study and verify the various modulation techniques. |
| **Course Outcomes** | Upon successful completion of the course, the students will be able to: |
| CO1 | Analyse the electronic circuits experimentally. |
| CO2 | Design & Analyse the Amplitude Modulation and De-Modulation system. |
| CO3 | Study and verify the Mixer Characteristics. |
| CO4 | examine the PAM and PPM practically |
| CO5 | Understand the performance of transmission lines. |
| CO6 | Design & Analyse the Frequency Modulation and De-Modulation system. |
| **Course****Content** | Minimum of 10 experiments to be completed out of the following:**LIST OF EXPERIMENTS**1. Amplitude Modulation.
2. Amplitude De-Modulation.
3. Frequency Modulation.
4. Pulse Amplitude Modulation.
5. Pulse Position Modulation.
6. Pulse Width Modulation.
7. Proto Type Filters.
8. Pre-Emphasis and De-Emphasis.
9. Transmission Lines.
10. FM using Variable Reactance Method.
11. Frequency De-Modulation.
12. Mixer Characteristics.
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| **Contribution of Course Outcomes towards achievement of Program Outcomes** |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| CO1 | 3 | 3 | 2 | 2 | 1 | - | - | - | 2 | 2 | - | 2 | 3 | 3 |
| CO2 | 3 | 3 | 2 | 2 | 1 | - | - | - | 1 | 2 | - | 2 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 1 | 1 | - | - | - | - | 2 | - | 2 | 2 | 3 |
| CO4 | 3 | 3 | 2 | 2 | 1 | - | - | - | 2 | 2 | - | 2 | 2 | 3 |
| CO5 | 3 | 3 | 2 | 2 | 1 | - | - | - | 1 | 2 | - | 2 | 3 | 2 |
| CO6 | 3 | 3 | 2 | 2 | 1 | - | - | - | 1 | 2 | - | 2 | 3 | 2 |