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Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

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| **BLOCK :**  | **F** |
| **FLOOR :**  | **FIRST** |
| **ROOM NO:**  | **102** |
| **ROOM SIZE (in Sq. mtrs):** | **66** |
| **LAB NAME:** | **CONTROL SYSTEMS LAB** |
| **FANS :**  | **4** |
| **TUBE LIGHTS :**  | **4** |
| **CHAIRS :**  | **2** |
| **STAFF TABLES :**  | **1** |
| **EXPERIMENT TABLES :**  | **12+2** |
| **CLOSED IRON RACKS :**  | **1** |
| **WOODEN CLOSED RACKS :** | **0** |
| **Others:** |  |

**LAB SPECIFICATIONS**

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| **SI.No.** | **NAME OF THE EXPERIMENT** | **APPARATUS REQUIRED** | **No. AVAILABLE** |
| 1 | Time Response Of Second Order System | Kit | 1 |
| CRO | 1` |
| 2 | Characteristics Of Synchros | Kit | 1 |
| 3 | Programmable Logic Controller – Study And Verification Of Truth Tables Of Logic Gates, Simple Boolean Expressions And Application Of Speed Control Of Motor | Kit | 1 |
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| 4 |  Characteristics Of Ac Servo Motor | Kit | 1 |
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| 5 | Effect Of P, Pd, Pi, Pid Controller On A Second Order Systems | Kit | 1 |
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| 6 | Lag And Lead Compensation – Magnitude And Phase Plot | Kit | 1(SERVICING) |
| 7 | Transfer Function Of Dc Motor | Kit  | 1 |
| Motor | 1 |
| TACHOMETER | NOT AVAILABLE  |
| 8 | Temperature Controller Using Pid | Kit | 1 |
| 9 | Characteristics Of Magnetic Amplifiers | Kit | 1 |
| RPS (0-30)V | 1 |
| R LOAD 100 OHMS/2A | 1 |
| 10 | Characteristics Of DC Servo Motor |  KIT | 1 |

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| **S.NO** | **NAME OF THE EQUIPMENT**  | **RATING** | **QTY** |
| 1 | Linear sysem simulator |  | 1 |
| 2 | Time response of Second order system |   | 1 |
| 3 | Characteristics of Synchros |   | 1 |
| 4 | Programmable logic controller – characteristics of stepper motor |   | 1 |
| 5 | Effect of P, PD, PI, PID Controller on a second order systems |   | 1 |
| 6 | Lag and lead compensation – Magnitude and phase plot |   | 1 |
| 7 | Transfer function of DC motor |   | 1 |
| 8 | Temperature controller using PID |   | 1 |
| 9 | Characteristics of magnetic amplifiers |   | 1 |
| 10 | Characteristics of AC servo motor |   | 1 |
| 11 | Characteristics of DC servo motor |   | 1 |