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

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| **BLOCK :**  | **F** |
| **FLOOR :**  | **GROUND** |
| **ROOM NO:**  | **002** |
| **ROOM SIZE (in Sq. mtrs):** | **60** |
| **LAB NAME:** | **POWER SYSTEMS LAB** |
| **FANS :**  | **4** |
| **TUBE LIGHTS :**  | **4** |
| **CHAIRS :**  | **2** |
| **STAFF TABLES :**  | **1** |
| **EXPERIMENT TABLES :**  | **7** |
| **CLOSED IRON RACKS :**  | **0** |
| **WOODEN CLOSED RACKS :** | **1** |
| **Others:** |  |
| **LAB SPECIFICATIONS** |
| **SI.No.** | **NAME OF THE EXPERIMENT** | **APPARATUS REQUIRED** | **No. AVAILABLE** |
| **1** | Sequence impedances of 3 phase Transformer. | PANEL + MACHINE | 1 |
| 3-phase variac(5KVA) | 1 |
| 2 | Sequence impedances of 3 phase Alternator by Fault Analysis. | PANEL + MACHINE | 1 |
| Rheostats(370 Ω/1.7A) | 2 |
| 3 | Sequence impedances of 3 phase Alternator by Direct method | PANEL + MACHINE | 1 |
| Rheostats (370 Ω/1.7A) | 1 |
| Rheostats (500 Ω/1A) | 1 |
| 4 | ABCD parameters of Transmission network | PANEL | 1 |
| 5 | Power Angle Characteristics of 3phase Alternator with infinite busbars. | PANEL | 1 |
| 6 | Dielectric strength of Transformer oil. | KIT | 1 |
| 7 | Calibration of Tong Tester. | PANEL | 1 |
| Rheostats (500 Ω/1A) | 1 |

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| **S.NO** | **NAME OF THE EQUIPMENT**  | **RATING** | **QTY** |
| 1 |  Sequence impedances of 3 phase Transformer. |   | 1 |
| 2 |  Sequence impedances of 3 phase Alternator by Fault Analysis. |   | 1 |
| 3 | Sequence impedances of 3 phase Alternator by Direct method. |   | 1 |
| 4 | ABCD parameters of Transmission network. |   | 1 |
| 5 | Power Angle Characteristics of 3phase Alternator with infinite busbars. |   | 1 |
| 6 |  Dielectric strength of Transformer oil. |   | 1 |
| 7 | Calibration of Tong Tester. |   | 1 |
|   |   |   |   |
| 8 | 3-phase variac | 5KVA | 1 |
| 9 | Rheostats | 370 Ω/1.7A | 3 |
| 10 | Rheostats | 500 Ω/1A | 2 |