Simulator Requirement Specification

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| Department Name | **Electrical Engineering** |
| Class | S.Y.Btech |
| Semester | III |
| Subject Name | DC Machine & Transformer |
| Experiment No. | 1 |
| Experiment Name | **SCOTT CONNECTION OF TRANSFORMER** |

Version History

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| --- | --- | --- | --- | --- |
| Sr. No. | Version Number | Created By | Approved By | Date |
| 1 | v1.0 | Priya Yadav | Mrs. Sushmita Sharma | 12/10/2020 |

Detailed Requirement Specification

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| **Req. ID** | **Visual Entity Required** | **Requirement Description** | **Comments** |
| REQ1 | **ON-OFF Switch with indication** | To display the position of supply | At this stage the programmer should be able to view position of supply when switched ON switch should blow Green or else Red |
| REQ2 | **Digital Meters** | To show the voltage and current readings | At this stage the programmer should be able to see voltage when switched it ON and Current should b displayed as well. |
| REQ3 | **Switch 3** | * When closed, V(Resultant should be displayed) | At this stage the programmer should be able to view position of supply when switched ON switch should blow Green or else Red |
| REQ4 | **Load Switch** | To display load connections to the transformer | When closed, IT & IM should displayed, Reading of remaining Ammeters changes. |

Procedure for Simulator:

1. Switch ON the mains supply
2. Switch ON the switch S3
3. Switch OFF the switch S3
4. Switch ON load Switch (Not allowed to turn ON until S3 is OFF)
5. Turn OFF load and supply switch