Simulator Requirement Specification

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| --- | --- |
| Department Name | Electrical Engineering |
| Class | TY BTech |
| Semester | V |
| Subject Name | Power Electronics |
| Experiment No. | 1 |
| Experiment Name | MOSFET Characteristics |

Version History

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| --- | --- | --- | --- | --- |
| Sr. No. | Version Number | Created By | Approved By | Date |
| 1 | v1.0 | Yuvraj Bhalekar | Mrs. Sushmita Amit Sarkar | 09/10/2020 |
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Detailed Requirement Specification

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| **Req. ID** | **Visual Entity Required** | **Requirement Description** | **Comments** |
| REQ1 | Next button | Takes to next part of simulation (transfer characteristics) | This button required since this experiment has two parts |
| REQ2 | Circuit Diagram  (first for the output characteristics after clicking next button circuit diagram for transfer characteristics) | Circuit diagram/simulation circuit on MATLAB appears on screen | Diagram should be with appropriate labels |
| REQ3 | Input field | Input to change value of VGG in | The value of VGG should be such that VGS varies in steps(1.1, 1.2,….1.5) |
| REQ4 | Input field | Input field for VGG the value in steps (0.1to1.55) |  |
| REQ5 | Graphs as output as mentioned in the procedure | Two graphs for two parts | Observation table get filled as the voltage increases |
| REQ6 |  |  |  |