DEPARTMENT OF ELECTRICAL ENGINEERING

ASSAM ENGINEERING COLLEGE JALUKBARI,

GUWAHATI – 781 013

POWER SYSTEM SIMULATION LAB-1(PG)
CODE: EE202114

1 Evaluate the performance of the medium transmission line.

2 Economic dispatch using lambda-iteration method

3 Pick-up test for differential relay

4 Under/over voltage protection

5 Power flow analysis by Newton-Raphson method

POWER SYSTEM SIMULATION LAB-2(PG)
CODE: EE202214

1 Power flow analysis by the Newton-Raphson method

2 Transformer protection using a differential relay for in-zone trip faults.

3 Contingency analysis: Generator shift factors and line outage distribution factors

4 Transformer out zone or non-trip faults.

5 Unbalanced Voltage Protection

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RUBRICS FOR PSS LAB ASSESSMENT

Category	Sub-Category	0-30%	31-60%	61-100%
CONTINUOUS AND COMPREHENSIVE EVALUATION	**Attendance and Preparedness** **(12%)**	The student is present but not prepared for the lab	The student is present but not well prepared	The student is present and fully prepared
	Ability to do programming and perform Laboratory Experiments **(18%)**	Not able to complete the assigned work	Complete the work partially	Complete the work fully
RESULT & ANALYSIS	**Program/Experimental details** **(30%)**	Missing several important details	Missing some important details	Details are well covered
	Results: data, figures, graphs, tables, etc **(20%)**	Results contain errors.	Results are well presented but have some errors	Results are well presented without any corrections.
VIVA	**Answers related to Programming/experiments** **(20%)**	Could not answer anything	Could not answer properly.	Concluded and answered all the questions