



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Syllabus

III Year - VI Semester: B.Tech. (Electrical Engineering)

6EE4-21: POWER SYSTEM - II LAB

Credit: 2

OL+OT+4P

Max. Marks: 100(IA:60, ETE:40)

End Term Exam: 3 Hours

1. Fault analysis (for 3 to 6 bus) and verify the results using MATLAB or any available software for the cases: (i) LG Fault (ii) LLG Fault (iii) LL Fault and (iv) 3-Phase Fault.
2. Load flow analysis for a given system (for 3 to 6 bus) using (i) Gauss Seidal (ii) Newton Raphson (iii) Fast Decoupled Method and verify results using MATLAB or any available software.
3. Three phase short circuit analysis in a synchronous machine(symmetrical fault analysis)
4. Study of voltage security analysis.
5. Study of overload security analysis and obtain results for the given problem using MATLAB or any software.
6. Study of economic load dispatch problem with different methods.
7. Study of transient stability analysis using MATLAB/ETAP Software.
8. Power flow analysis of a slack bus connected to different loads.