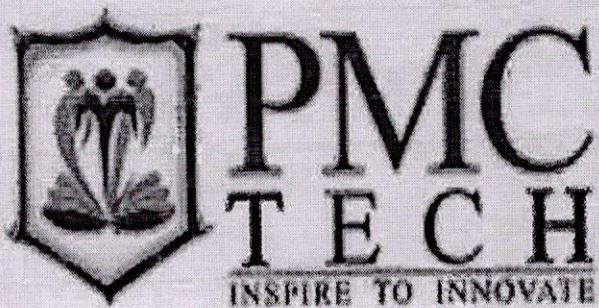


Er. Perumal Manimekalai College of Engineering



Accredited by NAAC with 'B++' Grade

Department of Electrical & Electronics Engineering



Subject Code & Name: EE6711 – Power System
Simulation Laboratory

Lab Manual (Regulation -2017)
Semester VII (EEE)

Academic Year: 2018 - 2019



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FACULTY
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**VII SEM - E.E.E.****EE 6711 - POWER SYSTEM SIMULATION LABORATORY**

S.NO	NAME OF EXPERIMENTS
1	Computation of Parameters and Modeling of Transmission Lines
2	Formation of Bus Admittance and Impedance Matrices and Solution of Networks
3	Load Flow Analysis - I : Solution of Load Flow And Related Problems Using Gauss-Seidel Method
4	Load Flow Analysis - II: Solution of Load Flow and Related Problems Using Newton-Raphson and Fast-Decoupled Methods
5	Symmetrical & Asymmetrical Fault Analysis
6	Transient and Small Signal Stability Analysis: Single-Machine Infinite Bus System
7	Transient Stability Analysis of Multi machine Power Systems
8	Electromagnetic Transients in Power Systems
9	Load – Frequency Dynamics of Single- Area and Two-Area Power Systems
10	Economic Dispatch in Power Systems.

CONTENT BEYOND SYLLABUS

1	Load flow analysis of a given power system with STATCOM
2	Transient analysis of single machine infinite bus system with STATCOM



1

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