

24424

B.Tech 7th Semester (EE) F-Scheme

Examination, May-2017

**COMPUTER APPLICATIONS TO POWER
SYSTEM ANALYSIS**

Paper-EE-409-F

Time allowed : 3 hours]

[Maximum marks : 100

*Note : Attempt five questions out of nine questions.
Question No.1 is compulsory. Students have to
attempt one question from each of four section.*

1. (a) What is RTU in power system ?
- (b) Explain Ferranti effect.
- (c) What is pre fault current ?
- (d) Explain primitive network.

Section-A

2. Explain performance of transmission line.
3. Explain Security analysis and contingency analysis.

Section-B

4. (a) Write the Algorithm of fast decoupled method.
- (b) Draw flow chart for Newton-Rapson method.

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5. Explain Gauss Seidel method for load flow study and write its algorithm.

Section-C

6. (a) Explain types of modification in power system calculation.
(b) Explain digital technique in short circuit studies of double line to ground fault.
7. Explain various type of faults in power system.

Section-D

8. What is EMTP ? Explain its features.
9. Explain various state of power system for energy control.