

## Lesson Planning

**Name of the Institute** : CRSSIET SILANI-KESHO, JHAJJAR  
**Name of the teacher** : Ms. Kritika Khunger  
**Department** : Electrical  
**Subject & Code** : POWER SYSTEM OPERATION AND CONTROL  
 EE-405-F  
**Branch/Semester** : EE 7th Semester

Chapter Covered	Topic	Academic Activity	Test/Assignment
Section-A INTRODUCTION:	Load frequency control (single area case)	<ul style="list-style-type: none"> <li>• Presentation on optimal load frequency control</li> <li>• Quiz based on presentation</li> </ul>	01 Test  01 Assignment
	economic dispatch		
	optimal load frequency control		
	Load Management		
Section-B:	Introduction to Economic Load Dispatch	<ul style="list-style-type: none"> <li>• Presentation on Optimal Generation Schedule</li> <li>• Quiz based on presentation</li> </ul>	01 Test  01 Assignment
	Optimal Operation of Generators of Bus bar		
	Unit Commitment and Reliability Considerations		
	Optimal Generation Schedule		
	Hydro thermal optimal scheduling		
Section-C	Steady state, transient & dynamic stabilities	<ul style="list-style-type: none"> <li>• Presentation on AVR's</li> <li>• Quiz based on presentation</li> </ul>	01 Test  01 Assignment
	equal area criteria		
	effect of fault clearing time on transient stability		
	dynamics of synchronous machine		
Section-D:	factors affecting transient stability		
	AVR's		
	role of AVR on transient stability of system		
	type 0 & 1 excitation system power system stabilizers		