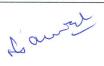
## NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

<b>COURSE PLAN for EE</b>	PC25	<b>这些新花型</b> 用具					
Course Title	Power System Analysis						
Course Code	EEPC25	No. of Credits	4				
Department	EEE	Faculty	S Arul Daniel				
Pre-requisites Course Code	-						
Course Coordinator(s) (if, applicable)							
Other Course Teacher(s)/Tutor(s) E-mail	daniel@nitt.edu	Telephone No.	0431-2503256				
Course Type	Core course	Elective	e course				
COURSE OVERVIEW							
hence development of power systems is significant. In order to plan for expansion due to the ever increasing consumption of electricity and to operate the system at its best performance, certain studies are essential. This course will give the rudiments of modelling a power system and to use the model in system studies.							
COURSE OBJECTIVE	S	. 7 1					
To model various power system components and carry out load flow, short-circuit and stability studies.							
COURSE OUTCOMES	S (CO)						
Course Outcomes	/ -	- 1	Aligned Programme Outcomes (PO)				
able to		tem. 1	,5 ,5 ,5				

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S.No.	Week	To	opic	Mode of Delivery	
1.	1 and 2	Introduction, diagram and representatio transformers synchronous	per-unit n of and	Lecture and Tutorial	
2.	3	Y bus format	ion	Lecture and Tutorial	
4.	4	Static load flo Gauss Seidel	ow equations, method	Lecture, Tutorial and Simulation	
5.	5 and 6	NR method a	nd decoupled	Lecture, Tutorial and Simulation	
6.	7 to 9	Z bus formati equivalent cir phase short c		Lecture and Tutorial	
7.	10	Symmetrical and symmetri		Lecture and Tutorial	
8.	11 and 12	Line to Grour and double lin fault studies	nd, Line to Line ne to ground	Lecture, Tutorial and Simulation	
9.	13	Open circuit f	aults	Lecture and Tutorial	
10	14 and 15	Stability stud	ies	Lecture and Tutorial	
11.	16	Group Task A	ssessment		
COUR	SE ASSESSMENT	METHODS			
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage	
1.	Summative	End of 6 <sup>th</sup> week	1 hour	20%	
2.	Summative	End of 12 <sup>th</sup> week	1 hour	20%	
3.	Group Tasks	16 <sup>th</sup> week		20%	
4.	Summative	End of 16 <sup>th</sup> week	2 hours	40%	

D P Kothari, I J Nagrath 'Modern Power System Analysis', 3rd Edition, 2011.
 Hadi Saadat, 'Power System Analysis', Tata McGraw-Hill Education, 2nd Edition, 2002



<sup>1.</sup> John .J. Grainger & Stevenson.W.D., 'Power System Analysis', McGraw Hill, 1 st Edition, 2003.

assessed and inc	licate the attainment also)	nich the feedback about	the course is			
Appropriate anor	nymous feed-back from the stud	dents will be obtained.				
3			a y			
COURSE POLICY	' (including plagiarism, academ	ic honesty, attendance,	etc.)			
100% attendance	sments will invoke penal clause is expected in all the course ac s criteria shall be as per Institut	tivities including lectur	es.			
ADDITIONAL COL	JRSE INFORMATION		. 1			
Students may download the free student version of Power World simulator for carrying out the simulation exercises.						
Approval	- 1 - 1					
Programme Table 1			ry .			
	Jest .	11				
1	source	809 120 HOD	2012017			
Course Faculty _	CC-Chairperson	HOD	10/07/			