



UNIVERSIDADE FEDERAL FLUMINENSE
PRÓ-REITORIA DE GRADUAÇÃO
COORDENADORIA DE APOIO AO ENSINO DE GRADUAÇÃO



CURRICULAR STRUCTURE

FORM Nº 19 – **COURSE SYLLABUS/ACTIVITY**

CONTENT OF STUDIES

ELECTRICAL POWER SYSTEMS

SUBJECT NAME/ACTIVITY	CODE	CONCEPTION ()
Power Flow in Electrical Systems	TEE00138	ALTERATION: NAME () CL () TRANSLATION: (X)

DEPARTMENT/IMPLEMENTATION COORDINATION: ELECTRICAL ENGINEERING DEPARTMENT

COURSE LOAD: 60 HOURS

THEORETICAL: 60 HOURS

PRACTICAL: 0 HOURS

INTERNSHIP: 0 HOURS

PROGRAM CONTENT

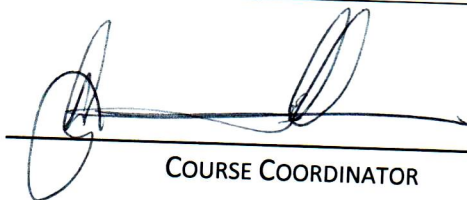
MODELS OF POWER GRIDS AT PERMANENT REGIME, NON-LINEAR EQUATIONS OF POWER FLOW PROBLEM, SOLUTIONS OVER INTERACTIVE METHODS, LINEAR POWER FLOW, MODELLING AND COMPUTATIONAL ANALYSIS OF POWER FLOW, CASES STUDIES;

BASIC BIBLIOGRAPHY:

1. J. J. GRAINGER, W. D. STEVENSON JR., "POWER SYSTEM ANALYSIS", MC-GRAW-HILL, 1994;
2. J. D. GLOVER, M. S. SARMA, "POWER SYSTEM ANALYSIS AND DESIGN", THOMSON LEARNING, 2002;
3. H. SAADAT, "POWER SYSTEM ANALYSIS", MC-GRAW-HILL, 1999;
4. A. J. MONTICELLI, "FLUXO DE CARGA EM REDES DE ENERGIA ELÉTRICA", ED. EDGARD BLÜCHER LTDA, 1983;
5. O. I. ELGERD, "INTRODUÇÃO À TEORIA DE SISTEMAS DE ENERGIA ELÉTRICA", MC-GRAW-HILL, 1976;
6. C. H. C. GUIMARÃES, "SISTEMAS ELÉTRICOS DE POTÊNCIA E SEUS PRINCIPAIS COMPONENTES", EDITORA CIÊNCIA MODERNA, IN PRESS.

COMPLEMENTARY BIBLIOGRAPHY:

1. HOMER E. BROWN, "SOLUTION OF LARGE NETWORKS BY MATRIX METHODS", WILEY, 1985, 2ND ED;
2. F. MILANO, "POWER SYSTEM MODELLING AND SCRIPTING", SPRINGER, 2010;
3. CEPEL, MANUAL DO USUÁRIO DO PROGRAMA DE ANÁLISE DE REDES ELÉTRICAS – ANAREDE. RIO DE JANEIRO, RJ, BRASIL, 2009.

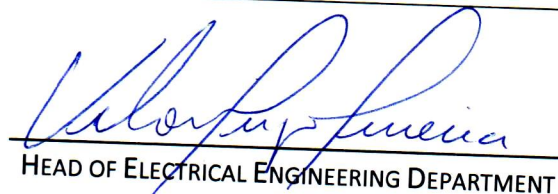


COURSE COORDINATOR

DATE 23 / 01 / 2018

November/2017

Daniel Henrique N. Dias
Coordenador do Curso de
Graduação em Eng^a Elétrica
Matr. SIAPE 1847851



HEAD OF ELECTRICAL ENGINEERING DEPARTMENT

DATE 23 / 01 / 2018

Prof. Vitor Hugo Ferreira, D.Sc.
Chefe do Depto. Eng. Elétrica UFF
Matr. SIAPE 1672218