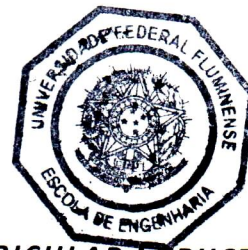




UNIVERSIDADE FEDERAL FLUMINENSE
PRÓ-REITORIA DE GRADUAÇÃO
COORDENADORIA DE APOIO AO ENSINO DE GRADUAÇÃO



CURRICULAR STRUCTURE

FORM Nº 19 – COURSE SYLLABUS/ACTIVITY

CONTENT OF STUDIES

POWER ELECTRONICS

SUBJECT NAME/ACTIVITY Laboratory of Power Electronics	CODE TEE00130	CONCEPTION () ALTERATION: NAME () CL () TRANSLATION: (X)
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DEPARTMENT/IMPLEMENTATION COORDINATION: ELECTRICAL ENGINEERING DEPARTMENT

COURSE LOAD: 30 HOURS

THEORETICAL: 0 HOURS

PRACTICAL: 30 HOURS

INTERNSHIP: 0 HOURS

PROGRAM CONTENT

EXPERIMENTS: 1ST - TESTS IN SEMI-CONDUCTORS;
2ND - SINGLE-PHASE RECTIFIER CONTROLLED BY A TCA-785;
3RD - THREE-PHASE RECTIFIER CONTROLLED BY A TCA-785;
4TH - SINGLE-PHASE RECTIFIER CONTROLLED BY A UJT;
5TH - THREE-PHASE CONTROLLED RECTIFIER WITH 12 PULSES;
6TH - PERFORMANCE ANALYSIS OF COSINE, RAMP AND DIGITAL TRIGGER METHODS;
7TH - CYCLE-CONVERTERS SHOT SYSTEM;
8TH - A SOFT-STARTER PARAMETERIZATION AND FUNCTIONING;
9TH - A FREQUENCY INVERTER PARAMETERIZATION AND FUNCTIONING;
10TH - (CHOPPERS) DC-DC CONVERTERS.

BASIC BIBLIOGRAPHY:

1. I. BARBI E D. C. MARTINS, ELETRÔNICA DE POTÊNCIA - CONVERSORES CC-CC BÁSICOS NÃO ISOLADOS, ED. DOS AUTORES, 2000;
2. M. H. RASHID, POWER ELECTRONICS, CIRCUITS, DEVICES AND APPLICATIONS, PRENTICE-HALL, INC., THIRD EDITION, 2004;
3. N. MOHAN, T. M. UNDELAND AND W. P. ROBBINS, POWER ELECTRONICS, JOHN WILEY & SONS, THIRD EDITION, 2003;
4. AHMED, A., ELETRÔNICA DE POTENCIA, PEARSON BRASIL, 2000;
5. B. K. BOSE, MODERN POWER ELECTRONICS AND AC DRIVES, PRENTICE HALL; 1 EDITION, 2001;
6. J. G. KASSAKIAN, M. F. SCHLECHT, G. C. VERGHESE, PRINCIPLES OF POWER ELECTRONICS, ADDISON-WESLEY, 1991.

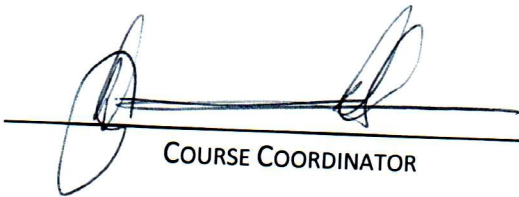
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2. MARC COUËDIC, CIRCUITOS INTEGRADOS PARA TRISTORES Y TRIACS: DESCUBRA Y DOMINE LA ELECTRÓNICA DE POTENCIA, MARCOMBO, 1999;
3. B. K. BOSE, MODERN POWER ELECTRONICS AND AC DRIVES, PRENTICE HALL; 1ST EDITION, 2001.



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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