



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

CONTENT OF STUDIES

ELECTRICAL CIRCUITS

SUBJECT NAME/ACTIVITY  
 Electrical Circuits I

CODE  
 TEE05001

CONCEPTION ( )  
 ALTERATION: NAME ( ) CL ( )  
 TRANSLATION: (X)

DEPARTMENT/IMPLEMENTATION COORDINATION: ELECTRICAL ENGINEERING DEPARTMENT

COURSE LOAD: 90 HOURS      THEORETICAL: 60 HOURS      PRACTICAL: 30 HOURS      INTERNSHIP: 0 HOURS

PROGRAM CONTENT

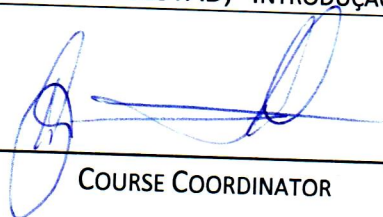
FUNDAMENTAL CONCEPTS. PARAMETERS OF A CIRCUIT. ANALYSIS OF RESISTIVE CIRCUIT; ANALYSIS OF CIRCUITS UTILIZING ALTERNATIVE WAVE FORMS, CIRCUITS WITH SINUSOIDAL WAVE FORM; RESONANCE; THEVENIN'S THEOREM; NORTON'S THEOREM; COMPENSATIONS AND RECIPROCITY; POWER AND ENERGY; POWER FACTOR; MUTUAL INDUCTANCE CIRCUITS AND TRANSFORMERS.

BASIC BIBLIOGRAPHY:

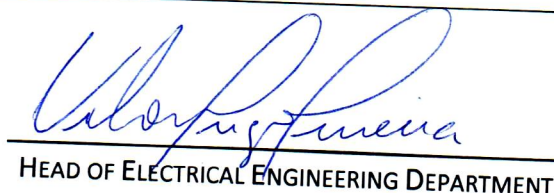
1. O'MALLEY HILL, "ANÁLISE DE CIRCUITOS", EDITORA MAKRON.
2. DAVID E. JOHNSON, JOHN L. HILBURN, JOHNNY R. JOHNSON, "FUNDAMENTOS DE ANÁLISE DE CIRCUITOS ELÉTRICOS", EDITORA LTC.
3. CHARLES K. ALEXANDER, MATTHEW O. SADIKU, "FUNDAMENTOS DE CIRCUITOS ELÉTRICOS", EDITORA BOOKMAN.
4. K. OGATA, "ENGENHARIA DE CONTROLE MODERNO", EDITORA PRENTICE HALL DO BRASIL.
5. CHARLES M. CLOSE, CIRCUITOS ELÉTRICOS, VOLUMES 1 E 2, EDITORA LTC.

COMPLEMENTARY BIBLIOGRAPHY:

1. CARLOS PERES QUEVEDO, "CIRCUITOS ELÉTRICOS E ELETRÔNICOS", EDITORA LTC.
2. RICHARD C. DORF, JAMES A. SYOBODA, "INTRODUÇÃO AOS CIRCUITOS ELÉTRICOS", EDITORA LTC.
3. ROBERT BOYLESTAD, "INTRODUÇÃO À ANÁLISE DE CIRCUITOS", EDITORA PRENTICE HALL.

  
 COURSE COORDINATOR

DATE 24 / 01 / 2018

  
 HEAD OF ELECTRICAL ENGINEERING DEPARTMENT

DATE 23 / 01 / 2018

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