



CURRICULAR STRUCTURE

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

CONTENT OF STUDIES

ELECTRICAL CIRCUITS

SUBJECT NAME/ACTIVITY Alternating and Direct Current Electrical Circuits	CODE TEE00114	CONCEPTION () ALTERATION: NAME () CL () TRANSLATION: (X)
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DEPARTMENT/IMPLEMENTATION COORDINATION: ELECTRICAL ENGINEERING DEPARTMENT

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

PROGRAM CONTENT

BASIC CONCEPTS OF ELECTRICAL CIRCUITS; KIRCHHOFF'S LAW; EQUIVALENT RESISTANCE; THÉVENIN'S AND NORTON'S THEOREM; NODE AND MESH EQUATIONS; RL, RC AND RLC CIRCUITS; NATURAL AND COMPLETE RESPONSES; STATIONARY MODE; PHASORS; ELECTRIC POWER; FREQUENCY RESPONSE; RESONANCE.

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:

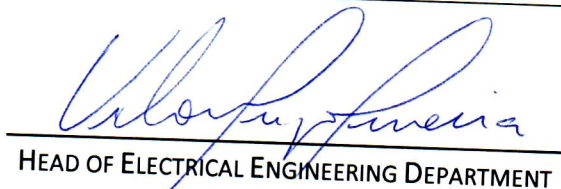
1. CARLOS PERES QUEVEDO, "CIRCUITOS ELÉTRICOS E ELETRÔNICOS", EDITORA LTC;
2. RICHARD C. DORF, JAMES A. SYOBODA, "INTRODUÇÃO AOS CIRCUITOS ELÉTRICOS", EDITORA LTC;
3. ROBERT BOYLESTAD, "INTRODUÇÃO À ANÁLISE DE CIRCUITOS", EDITORA PRENTICE HALL.



COURSE COORDINATOR

DATE 05 / 03 / 2018

Daniel Henrique N. Dias
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HEAD OF ELECTRICAL ENGINEERING DEPARTMENT

DATE 05 / 03 / 2018

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