

CURRICULAR STRUCTURE

FORM Nº 19 – COURSE SYLLABUS/ACTIVITY

CONTENT OF STUDIES

ELECTRICAL ENERGY SYSTEMS

SUBJECT NAME/ACTIVITY	CODE	CONCEPTION ()
Control Systems Design	TEE00142	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

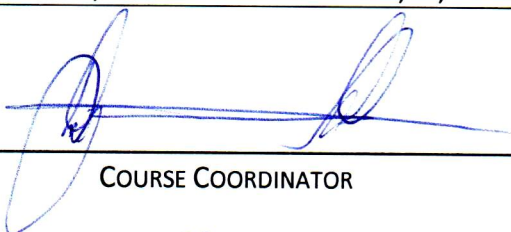
INTRODUCTION TO PROJECTS OF CONTROLLERS. CONTROLLER DESIGN FROM ROOTS PLACE AND FREQUENCY METHODS. PROJECT OF PID CONTROLLERS. PROJECT OF STATE-SPACES CONTROLLERS. INTRODUCTION TO DIGITAL CONTROLLING.

BASIC BIBLIOGRAPHY:

1. DORF, R. C. & BISHOP, R. H.; SISTEMAS DE CONTROLE MODERNOS, 11ª EDIÇÃO, LTC EDITORA, 2009;
2. OGATA, K.; ENGENHARIA DE CONTROLE MODERNO, 5ª EDIÇÃO, PEARSON, 2010;
3. NISE, N.; ENGENHARIA DE SISTEMAS DE CONTROLE, 5ª EDIÇÃO, LTC EDITORA, 2009;
4. OGATA, K., DISCRETE-TIME CONTROL SYSTEMS, PRENTICE HALL, 2ND EDITION, 1995;
5. FRANKLIN, G. F.; POWELL, J. D. AND WORKMAN, M.; DIGITAL CONTROL OF DYNAMIC SYSTEMS, ADDISON WESLEY, THIRD EDITION, 1997.

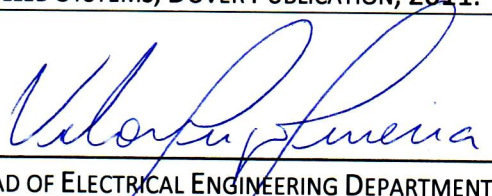
COMPLEMENTARY BIBLIOGRAPHY:

1. OGATA, K. MATLAB FOR CONTROL ENGINEERING., PEARSON, 2008;
2. MAYA, P. A. & LEONARDI, F.; CONTROLE ESSENCIAL, PEARSON, 2011;
3. PHILIPS, C. L. E HARBOR R. D., SISTEMAS DE CONTROLE E REALIMENTAÇÃO, MAKRON BOOKS, 1997;
4. DISTEFANO, J.J.; WILLIAMS, J.; SISTEMAS DE RETROAÇÃO E CONTROLE; MCGRAW-HILL, 1979;
5. BARCZAK, C. L.; CONTROLE DIGITAL DE SISTEMAS DINÂMICOS, PROJETO E ANÁLISE, EDITORA EDGAR BLÜCHER LTDA, 1995;
6. ASTRÖM, K. J. AND WITTENMARK, B.; COMPUTER CONTROLLED SYSTEMS, DOVER PUBLICATION, 2011.


COURSE COORDINATOR

DATE 24 / 01 / 2018

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HEAD OF ELECTRICAL ENGINEERING DEPARTMENT

DATE 23 / 01 / 2018

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November/2017