

CURRICULAR STRUCTURE

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

CONTENT OF STUDIES

CONTROL OF DYNAMIC SYSTEMS

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| SUBJECT NAME/ACTIVITY Control Systems Analysis | CODE TEE00136 | CONCEPTION () ALTERATION: NAME () CL () TRANSLATION: (X) |
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DEPARTMENT/IMPLEMENTATION COORDINATION: ELECTRICAL ENGINEERING DEPARTMENT

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

PROGRAM CONTENT

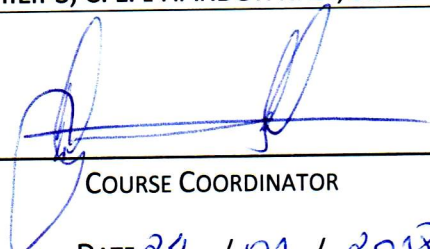
INTRODUCTIONS TO CONTROL THEORY. REPRESENTATION OF CONTROL SYSTEMS BY DIAGRAMS. SENSIBILITY ANALYSIS, STABILITY AND PERFORMANCE OF CONTROL SYSTEMS. METHODS OF ANALYSIS: ROOT SPACE, FREQUENCY RESPONSE AND STATE SPACES.

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. GOLNARAGHI, F. & KUO, B.; SISTEMAS DE CONTROLE AUTOMÁTICO, LTC EDITORA, 2012;
5. DISTEFANO, J.J.; WILLIAMS, J.; SISTEMAS DE RETROAÇÃO E CONTROLE; MCGRAW-HILL, 1979.

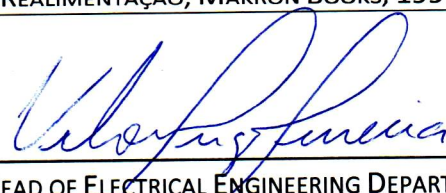
COMPLEMENTARY BIBLIOGRAPHY:

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.



COURSE COORDINATOR
DATE 24 / 01 / 2018

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HEAD OF ELECTRICAL ENGINEERING DEPARTMENT
DATE 23 / 01 / 2018

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