



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

CONTENT OF STUDIES

ALGORITHMS AND DATA STRUCTURE

SUBJECT NAME/ACTIVITY	CODE	CONCEPTION () ALTERATION: NAME () CL () TRANSLATION: (X)
Applications of Computers in Electrical Systems I	TEE04055	

DEPARTMENT/IMPLEMENTATION COORDINATION: ELECTRICAL ENGINEERING DEPARTMENT

COURSE LOAD: 75 HOURS THEORETICAL: 45 HOURS PRACTICAL: 30 HOURS INTERNSHIP: 0 HOURS

PROGRAM CONTENT

APPLICATIONS IN ELECTRICAL SYSTEMS; COMPUTER SYSTEMS; OPERATIONAL SYSTEMS OF MICROCOMPUTER; ALGORITHMS AND STRUCTURED PROGRAMMING; PROGRAMMING LANGUAGE, DATA STRUCTURE; PRACTICE OF PROGRAM DEVELOPMENT FOR APPLICATIONS IN ELECTRICAL ENGINEERING. FORTRAN PROGRAMMING LANGUAGE; STRUCTURE PROGRAMMING IN C++; OBJECT-ORIENTED PROGRAMMING IN C++; INTRODUCTION TO PROGRAMMING IN NUMERICAL AND SCIENTIFIC CALCULATION APPLICATIONS.

BASIC BIBLIOGRAPHY:

1. M. E. HEHL, "LINGUAGEM DE PROGRAMAÇÃO ESTRUTURADA FORTRAN", MCGRAW-HILL, 1986;
2. R. GAELZER, "INTRODUÇÃO AO FORTRAN 90/95", UFPEL, 2011;
3. L. BIANCHI, "FORTRAN 77", UNIVERSIDADE REGIONAL DE BLUMENAU;
4. I. HORTON, "BEGINNING C++ : THE COMPLETE LANGUAGE ANSI/ISO COMPLIANT", WROX BEGINNING SERIES;
5. UNIPAN, "LINGUAGEM C/C++", 2004;
6. H. FRIGERI, B. COPSTEIN, C. E. PEREIRA, "CURSO DE C++", 2004;
7. A. GILAT, "MATLAB COM APLICAÇÕES EM ENGENHARIA", 2006;

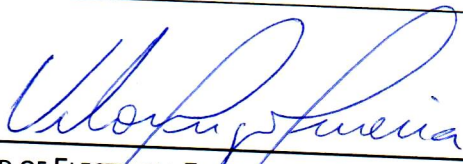
COMPLEMENTARY BIBLIOGRAPHY:

1. C. SANTANA, "APOSTILA DE FORTRAN", UNIVERSIDADE ESTADUAL DO CEARÁ;
2. H. P. CRISTO, "PROGRAMAÇÃO EM LINGUAGEM FORTRAN", UFMG, 2003;
3. H. SCHILDT, "C++: THE COMPLETE REFERENCE", OSBORNE.


 COURSE COORDINATOR

DATE 24 / 01 / 2018

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 HEAD OF ELECTRICAL ENGINEERING DEPARTMENT

DATE 23 / 01 / 2018

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