



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

CONTENT OF STUDIES

ELECTRICAL ENERGY DISTRIBUTION

SUBJECT NAME/ACTIVITY	CODE	CONCEPTION ( ) ALTERATION: NAME ( ) CL ( ) TRANSLATION: (X)
Introduction to Electrical Distribution Systems Automation	TEE00169	

DEPARTMENT/IMPLEMENTATION COORDINATION: ELECTRICAL ENGINEERING DEPARTMENT

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

PROGRAM CONTENT

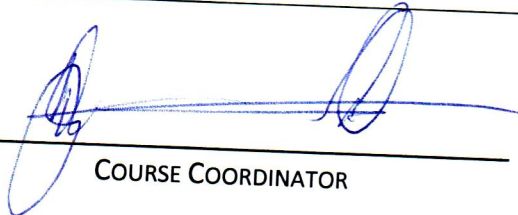
AUTOMATION FUNCTION, ELECTRICAL SUBSTATION LEVELS, PRIMARY AND SECONDARY ELECTRICAL GRIDS; DATA ACQUISITION - SENSORS AND TRANSDUCER; ARCHITECTURE HIERARCHY ON LAYERS, DATA TRANSMISSION SYSTEM, GRID INTERCONNECTIONS, PROTOCOLS AND CLPs.

BASIC BIBLIOGRAPHY:

1. M. K. KHEDKAR, G. M. DHOLE, "A TEXTBOOK OF ELECTRIC POWER DISTRIBUTION AUTOMATION", UNIVERSITY SCIENCE PRESS, 2010;
2. J. A. MOMOH, "ELECTRIC POWER DISTRIBUTION, AUTOMATION, PROTECTION, AND CONTROL", CRC PRESS, 2007;
3. R. P. GUPTA, "ELECTRIC POWER DISTRIBUTION AUTOMATION", NAROSA, PAPERBACK, 2009;
4. J. N. GREEN, R. G. WILSON, "CONTROL AND AUTOMATION OF ELECTRICAL POWER DISTRIBUTION SYSTEMS", CRC PRESS, 2006;
5. C. STRAUSS, "PRACTICAL ELECTRICAL NETWORK AUTOMATION AND COMMUNICATION SYSTEMS", ELSEVIER, 2003.

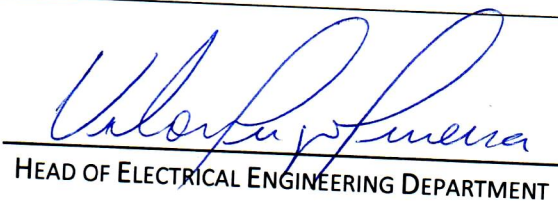
COMPLEMENTARY BIBLIOGRAPHY:

1. LAKERVI, E.; HOLMES, E.J.: ELECTRICITY DISTRIBUTION NETWORK DESIGN; PETER PEREGRINUS LTD., 1989, LONDON, UK; IEEE POWER ENGINEERING SERIES 9;
2. "PRACTICAL DISTRIBUTION & SUBSTATION AUTOMATION (INCL. COMMUNICATIONS) FOR ELECTRICAL POWER SYSTEMS", IDC TECHNOLOGIES, 2013;
3. S. MACKAY, E. WRIGHT, J. PARK, "PRACTICAL DATA COMMUNICATIONS FOR INSTRUMENTATION AND CONTROL".

  
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COURSE COORDINATOR

DATE 24 / 01 / 2018

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HEAD OF ELECTRICAL ENGINEERING DEPARTMENT

DATE 23 / 01 / 2018

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