Communication Engineering and Electronic Technologies

Teaching Mathematical Methods for Engineering

GenCod A003085
Owner Professor Antonio Leaci

Teaching in Italian MATHEMATICAL METHODS FOR ENGINEERING
Teaching MATHEMATICAL METHODS FOR ENGINEERING
SSD Code MAT/05
Reference Course COMMUNICATION ENGINEERING AND ELECTRONIC
Course Type Laurea Magistrale
Credits 9.0
Teaching Hours Ore-Attivita-frontale: 81.0
For Enrolled in 2019/2020
Taught in 2019/2020

BRIEF COURSE DESCRIPTION

REQUIREMENTS
Prerequisites: Ordinary differential equations, multiple, line and surface integrals. Complex Analysis, linear algebra, elementary physics.

COURSE AIMS
Aims and Scope: Concepts of advanced mathematical Analysis - Problem solving for ordinary and partial differential equations arising from physics or engineering.

TEACHING METHODOLOGY
Lessons and exercises

ASSESSMENT TYPE
Final examination: The final (written) exam consists in solving 2 exercises (8+8 points) and answering 2 theoretical questions (7+7 points) related with the topics of the course.


References.
M. Carriero, L. Anzilli: Introduzione alle Equazioni a Derivate Parziali Lineari, Quaderni di Matematica, 1/2015, ESE - Salento University Publishing.
A.N.Tichonov, A.A.Samarskij, Equazioni della fisica matematica, MIR, Mosca, 1981.
A.N.Tichonov, A.A.Samarskij, B.M.Budak, Problemi della fisica matematica, MIR, Mosca, 1981.