Benha University Faculty of Engineering-Shoubra Contents of Courses of Mathematics

First Year- Electrical Engineering (Power)

Mathematics 2 (B): Code No. RFA 173, 4 + 2 Hours, 50 + 100 = 150, (2nd Term)

- (i)Laplace transformations and inverse Laplace of functions, Laplace transformations of derivatives and integrals, solution of differential equations
- (ii)Special functions: gamma function, beta function, delta function, Legende's polynomials, Bessel's functions
- (iii)Series solution of ordinary differential equations
- (iv)Partial differential equations: one dimensional wave equation, separation of variables method, D'Alembert method, one dimensional heat equation