

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

Mechanical Engineering (Power)

First Year

Mathematics 2 (A): Code No. RFA 132, 4 + 2 Hours, 50 + 100 = 150, (1st Term)

(i) Infinite series and expansion of functions

(ii) Functions of several variables: partial differentiation, maximum and minimum values, Lagrange's multipliers and conditional extrema, envelopes

(iii) Ordinary differential equations: first order and higher order equations

(iv) Curvature