**< Mathematic Analysis (I)> Course Description**

Course: Mathematic Analysis (I)

Course No.: 3412110051

Credit / Course Hours: 6 credits, 96 hours

Preparatory Course: None

Course Description: This course is to study the properties of functions in real number field. The main contents are as follows: mapping and function, limit of sequences, limit of functions, infinitesimal and infinitely large quantity, continuous function, derivative, differentiation, differential mean value theorem and its applications, Taylor’s theorem, the properties of functions; the definition, existence condition and property of definite integral; calculus basic formula and basic theorem, two fundamental integration methods, applications of definite integral, abnormal Integral, solutions to several simple ordinary differential equations.