

Course No.& Code	Stat295
Course of Units	Special Methods
Number of Units	3(3+0)
Pre-requisite	N.A
Co-requisite	201 Math
Equivalent Requisite	N.A
Beneficiaries	College of Science (Statistics) Fourth Level
Course Definition& Description (Brief Contents)	This course contains a review of Real Numbers and their properties--- Basic definitions and examples of functions – Classifying functions – Limits and Continuity of functions - Functions of several Variables - Partial Derivatives- Limits of Riemann sums of Definite integral- Double and Multiple integrals- Sequences- Cauchy Convergence- Infinite Series and absolute convergence- Represent functions as Power Series-The technique of Lagrange Multipliers- Leonhard Euler Functions- First Order Linear Differential Equations- Foundation of Difference Equations
Main Topics	Detailed contents enclosed
Course Objectives	The objective of this course is to provide the student with concepts and method of mathematical analysis. These concepts are developed under calculus. The student needs these article in theory of probability and statistics, but less depth than take the student specializing in Mathematics.
Teaching Methods	Academic Presentations, Lectures and Exercises.
Curriculum Book	كتاب Book Title: Mathematical Methods for Statistics(***) منها Author :Dr. Ibrahim Elwasel and Dr. Joun Offouso) Publisher: King Saud University. Publication Year.1425H
Main Tex Books	Advanced Calculus. By D.Widder..
Evaluation System	1-Semester exam 2-Final exam
Semester Exam	Time:2 Hours
Marks Distribution	Semester Works:40 Marks Final Exam:60 Marks
Final exam Time	3 Hours
Date of Approval	