First Semester: 1437-1438(February-June, 2017)

MATH 203: Differential and Integral Calculus

Course details

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You may consult Lecture Notes on Math 203 by Dr. Asif Qureshi as supporting materials

STT (1 3 5) slot (Group 20446): 9.00 AM – 9.50 AM in Room 1B 13 Building 4

Chapter 8: Infinite Series

- Sequences
- Convergence or Divergence Series
- Positive-term Series
- The Ratio and Root Tests
- Alternating Series and Absolute Convergence
- Power Series
- Power Series Representation of Functions
- Maclaurin and Taylor Series

Chapter 13: Multiple Integrals

- Double Integrals
- Area and Volume
- Double Integrals in Polar Coordinates
- Surface Area
- Triple Integrals
- Moments and Center of Mass
- Cylindrical Coordinates
- Spherical Coordinates

Chapter 14: Vector Calculus
• Vector fields
• Line Integrals
• Independence of Path
• Green’s Theorem
• Surface Integrals
• The Divergence Theorem
• Stokes’s Theorem

Mark Distribution:
MT 1: 25
MT2: 25
Tutorial: 10
Final: 40
Total: 100