First Semester: 1439 -1440 (September 2018 -January, 2019)

MATH 203: Differential and Integral Calculus

Course details

Name of Instructor: Prof. Dr. T. M. G. Ahsanullah

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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 33102: 10.00 AM – 10.50 AM in Room 1A74 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
• Stockes’s Theorem

**Mark Distribution:**
MT 1: 25
MT2: 25
Tutorial: 10
Final: 40

**Total: 100**

*All the exam date will be announced whenever available*