NEP: UGCF 2022

B.Sc. (Hons.) Mathematics
Books for Discipline-Specific Core Courses

Semester-I

AUGUST 2023

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DSC-I
ALGEBRA

Essential Readings

1. Andreescu, Titu & Andrica, D. (2014) - Complex Numbers from A to ...Z (2nd Edition) - Birkhäuser
   View/Download (3.27 MB)

2. Dickson, Leonard Eugene (2009) - First Course in the Theory of Equations - John Wiley & Sons, Inc. - The Project Gutenberg
   View/Download (1.36 MB)

3. Gallian, Joseph. A. (2017) - Contemporary Abstract Algebra (9th Edition) - Cengage Learning India Private Limited, Delhi (Indian Reprint 2021)
   View/Download (11.4 MB)

4. Goodaire, Edgar G. & Parmenter, Michael M. (2006) - Discrete Mathematics with Graph Theory (3rd Edition) - Pearson Education Pvt. Ltd. (Indian Reprint 2018)
   View/Download (12.9 MB)

Suggestive Readings

- Burnside, W.S. & Panton, A.W. (1979) - The Theory of Equations, Vol. 1 (11th Edition) - S. Chand & Co. New Delhi, Dover Publications Inc. (Fourth Indian Reprint)
  Not Available

- Burton, David M. (2011) - Elementary Number Theory (7th Edition) - McGraw-Hill Education Pvt. Ltd. (Indian Reprint)
  View/Download (6.38 MB)

- Rotman, Joseph J. (1995) - An Introduction to The Theory of Groups (4th Edition) - Springer-Verlag, New York
  View/Download (38.7 MB)

DSC-II
ELEMENTARY REAL ANALYSIS

Essential Readings

1. Bartle, Robert G. & Sherbert, Donald R. (2011) - Introduction to Real Analysis (4th Edition) - John Wiley & Sons. Wiley India (Edition 2015)
   View/Download (9.18 MB)

2. Bilodeau, Gerald G., Thie, Paul R. & Keough, G. E. (2010) - An Introduction to Analysis (2nd Edition) - Jones and Bartlett India Pvt. Ltd. Student Edition (Reprinted 2015)
   Not Available

3. Denlinger, Charles G. (2011) - Elements of Real Analysis - Jones and Bartlett India Pvt. Ltd. Student Edition (Reprinted 2015)
   View/Download (180.9 MB)

Suggestive Readings

- Aliprantis C. D. & Burkinshaw, O. (1998) - Principles of Real Analysis (3rd Edition) - Academic Press
  View/Download (10.6 MB)

- Ross, Kenneth A. (2013) - Elementary Analysis: The Theory of Calculus (2nd Edition) - Undergraduate Texts in Mathematics, Springer (Indian Reprint)
  View/Download (3.28 MB)

- Thomson, B. S., Bruckner, A. M., & Bruckner, J. B. (2001) - Elementary Real Analysis - Prentice Hall
  View/Download (5.56 MB)

DSC-III
PROBABILITY AND STATISTICS

Essential Readings

1. Devore, Jay L. (2016) - Probability and Statistics for Engineering and the Sciences (9th Edition) - Cengage Learning India Private Limited, Delhi (Indian Reprint 2020)
   View/Download (5.88 MB)

Suggestive Readings

- Mood, A. M., Graybill, F. A., & Boes, D. C. (1974) - Introduction to the Theory of Statistics (3rd Edition) - Tata McGraw-Hill Pub. Co. Ltd. (Reprinted 2017)
  View/Download (23.6 MB)