

**NEP: UGCF 2022**  
**B.Sc. (Hons.) Mathematics**  
**Books for Discipline-Specific Core Courses**  
**Semester-I**  
**AUGUST 2023**

Syllabi: [du.ac.in](http://du.ac.in)

PDF: [15092023\\_Maths\\_NEP.pdf](#)

( The books are hosted on [GitHub](#) and [Drive](#) )

**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 \(23.6 MB\)](#)