

NEP: UGCF 2022
B.Sc. (Hons.) Mathematics
Books for Discipline-Specific Core Courses
Semester-II
JANUARY 2024

Syllabi: du.ac.in

PDF: [13032023_65_Math_SC.pdf](#)

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

DSC-IV
LINEAR ALGEBRA

Essential Readings

1. Andrilli, S. & Hecker, D. (2016) - Elementary Linear Algebra (5th Edition) - Elsevier India
[View/Download \(10.1 MB\)](#)
2. Friedberg, Stephen H., Insel, Arnold J. & Spence, Lawrence E. (2003) - Linear Algebra (4th Edition)
- Prentice-Hall of India Pvt. Ltd., New Delhi
[View/Download \(3.55 MB\)](#)

Suggestive Readings

- Lay, David C., Lay, Steven R. & McDonald, Judi J. (2016) - Linear Algebra and its Applications (5th Edition) - Pearson Education
[View/Download \(29.2 MB\)](#)
- Kolman, Bernard & Hill, David R. (2001) - Introductory Linear Algebra with Applications (7th Edition)
- Pearson Education, Delhi (First Indian Reprint 2003)
Not Available
- Hoffman, Kenneth, & Kunze, Ray Alden (1978) - Linear Algebra (2nd Edition) - Prentice Hall of India Pvt. Limited, Delhi - Pearson Education (Indian Reprint 2015)
[\[1971\] View/Download \(8.57 MB\)](#)

DSC-V

CALCULUS

Essential Readings

1. Anton, Howard, Bivens, Irl & Davis, Stephen (2013) - Calculus (10th Edition) - John Wiley & Sons Singapore Pvt. Ltd. Reprint (2016) by Wiley India Pvt. Ltd. Delhi
[2012] [View/Download \(22.8 MB\)](#)
2. Bartle, Robert G. & Sherbert, Donald R. (2011) - Introduction to Real Analysis (4th Edition) - John Wiley & Sons. Wiley India Edition (Reprint)
[View/Download \(9.18 MB\)](#)
3. Prasad, Gorakh (2016) - Differential Calculus (19th Edition) - Pothishala Pvt. Ltd., Allahabad
[View/Download \(82 MB\)](#)
4. Ross, Kenneth A. (2013) - Elementary Analysis: The Theory of Calculus (2nd Edition) - Undergraduate Texts in Mathematics, Springer (Indian Reprint)
[View/Download \(3.28 MB\)](#)

Suggestive Readings

- Apostol, T. M. (2007) - Calculus: One-Variable Calculus with an Introduction to Linear Algebra (2nd Edition) Vol. 1. - Wiley India Pvt. Ltd.
[1967, P.C.*] [View/Download \(48.4 MB\)](#)
- Ghorpade, Sudhir R. & Limaye, B. V. (2006) - A Course in Calculus and Real Analysis - Undergraduate Texts in Mathematics, Springer (SIE) (Indian reprint)
[View/Download \(4.46 MB\)](#)

DSC-VI

ORDINARY DIFFERENTIAL EQUATIONS

Essential Readings

1. Barnes, Belinda & Fulford, Glenn R. (2015) - Mathematical Modelling with Case Studies, Using Maple and MATLAB (3rd Edition) - CRC Press. Taylor & Francis Group
[View/Download \(4.33 MB\)](#)
2. Edwards, C. Henry, Penney, David E. & Calvis, David T. (2015) - Differential Equations and Boundary Value Problems: Computing and Modelling (5th Edition) - Pearson Education
[View/Download \(9.02 MB\)](#)
3. Ross, Shepley L. (2014) - Differential Equations (3rd Edition) - Wiley India Pvt. Ltd.
[1984] [View/Download \(43.3 MB\)](#)

Suggestive Readings

- Simmons, George F. (2017) - Differential Equations with Applications and Historical Notes (3rd Edition) - CRC Press - Taylor & Francis Group
[View/Download \(3.77 MB\)](#)

*Partially Corrupted