

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

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**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)

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\*Partially Corrupted