



# Mathematics I Calculus and Linear Algebra [For Computer Science Engineering Branches] (English)

Author : Reena Garg  
**ISBN 13 :** 978-93-91505-27-1  
**ISBN 10 :** 93-91505-27-9  
**E-ISBN 13 :** 978-93-91505-27-1  
**Edition :** First  
**Pages :** 412  
**Type of book :** Paperback  
**Year :** 2024  
**Language :** English  
**Publisher :** Khanna Publishing House  
**Regular Price :** Rs-492.00  
**Sale Price :** Rs 393.60  
**Categories :** [AICTE Prescribed Textbooks](#), [All books](#), [English Books](#)  
**Condition Type :** New  
**Country Origin :** India



**Khanna Publishing House**

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: [contact@khannabooks.com](mailto:contact@khannabooks.com) | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

---

## Product Description

---

Calculus and Linear Algebra cover all the modules prescribed by AICTE model curriculum to all the 1<sup>st</sup> year CSE students studying in engineering institutions and universities of the country. It serves as both text book /or useful reference work. It contains 5 units which included calculus, Algebra and vector spaces along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that help in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE. This book is in student's friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of questions in this book have been designed to access the reader's understanding of the subject professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

### **Some Salient Features of the Book:**

- In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.
- Emphasis on the applications of concepts and theorems.

---

## Table of Contents

---

Foreword

Acknowledgement

Preface

Outcome Based Education

Course Outcomes

Abbreviations and Symbols

List of Figures

Guidelines for Teachers

Guidelines for Students

1-Calculus-I

2-Calculus-II

3-Matrices



**Khanna Publishing House**

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: [contact@khannabooks.com](mailto:contact@khannabooks.com) | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

---

## Author

---

**Reena Garg** Dr. Reena Garg, M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers. She has published more than 10 research papers in various International Journals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore. </p>

---

