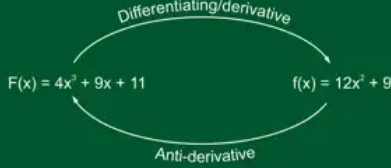


అఖిల భారత సాంకేతిక విద్యా మండలి (AICTE) ఉమ్మడి నమూనా పాఠ్య ప్రణాళిక ప్రకారం

ఫలిత ఆధార విద్యను అనుసరించి

జాతీయ విద్యా విధానం (NEP) 2020

గణితశాస్త్రం-II



$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} & \cdots & a_{1n} \\ a_{21} & a_{22} & a_{23} & \cdots & a_{2n} \\ \vdots & \vdots & \vdots & \vdots & \vdots \\ a_{m1} & a_{m2} & a_{m3} & \cdots & a_{mn} \end{bmatrix}$$



గరిమా సింగ్

Mathematics-II

Author : Garima Singh

ISBN 13 : 978-93-91505-87-5

ISBN 10 : 93-91505-87-2

E-ISBN 13 : 978-93-91505-87-5

Edition : 1

Pages : 204

Type of book : Paperback

Year : 2025

Language : Telugu

Publisher : Khanna Publishing House

Regular Price : Rs 248.00

Sale Price : Rs 198.40

Categories : [AICTE Prescribed Textbooks](#), [All books](#), [Telugu Books](#)

Condition : New

Country Origin : India



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

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“Mathematics-II” is a Compulsory paper for the first year students of Diploma engineering courses (common to all branches). Syllabus of this book is strictly aligned to the model curriculum of AICTE. And academic content is amalgamated with the concept of outcome based education. Apart from diploma it is useful for all students who are interested in basic /elementary mathematics and competitive examinations. Book covers seven topics- Determinants, Matrices, Integral Calculus and it’s applications. Co-ordinate Geometry and it’s applications, vectors and it’s applications, Differential equations. Basic of MATLAB. Each topic is written in an easy and lucid manner with a holistic view. There has been deliberated attempt to keep the number of pages in the book minimum without compromising with the matter. Every chapter contains a set of exercises at the end of each unit to test the student’s comprehension. Some salient features of the book: 1. For direct recapitulation of main concepts, formulae and results a brief summary of each unit has been given. 2. Objective questions and subjective questions are given for practice of students after every unit. 3. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and unit Outcomes. 4. Apart from the theory explanation and solved examples book provides for mini projects, activities, fun facts, QR codes, case studies, video resources etc. 5. The text has been supplemented with notes, remarks, remember sections within grey boxes. 6. Student and teacher centric subject materials are included in the book in a balanced manner. 7. Real life applications are inserted to improve clarity of this topics. 8. Know more section has been introduced which constitutes of additional information related to the topic. 9. Check-out section has been introduced so as to active the curiosity part of the student by correlating all the topics studied in this book with MATLAB. 10. At the end of each unit. An excerpt related to eminent Indian Mathematicians is given so as to make . 11. Student have a glimpse of the rich Indian

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