

Workshop / Manufacturing Practices (with Lab Manual)

Author :	Veerana D.K.
ISBN 13 :	978-93-55381-60-6
ISBN 10 :	93-55381-60-3
E-ISBN 13 :	978-93-55381-60-6
Edition :	First
Pages :	176
Type of book :	Paperback
Weight (g) :	290.00
Year :	2023
Language :	Gujarati
Publisher :	Khanna Publishing House
M.R.P :	Rs 264.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books
SKU :	1725639338
Condition Type :	New
Country Origin :	India

Product Description

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is followed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: 1. Manufacturing Methods. 2. CNC Machining, Additive manufacturing. 3. Fitting operations & power tools. 4. Electrical & Electronic. 5. Carpentry. 6. Plastic moulding, glass cutting. 7. Metal casting. 8. Welding (arc welding & gas welding), brazing. 9. Laboratory experiments and models. 10. Appendices. 11. References.



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Part- B: Workshop Practice Laboratory

Appendices

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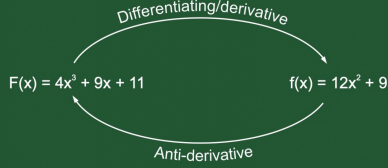
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AICTE মডেল পাঠ্যক্রম অনুযায়ী নির্ধারিত পাঠ্যপুস্তক

ফলাফল ভিত্তিক শিক্ষার সাথে সংযুক্ত

জাতীয় শিক্ষা নীতি 2020

গণিত-II



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



গরিমা সিং

Mathematics - II

Author :	Garima Singh
ISBN 13 :	978-93-55381-42-2
ISBN 10 :	93-55381-42-5
E-ISBN 13 :	978-93-55381-42-2
Edition :	First
Pages :	176
Type of book :	Paperback
Weight (g) :	230.00
Year :	2022
Language :	Bengali
Publisher :	Khanna Publishing House
M.R.P :	Rs 252.00
Categories :	AICTE Prescribed Textbooks, Bengali Books
Condition Type :	New
Country Origin :	India



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Product Description

“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 uni 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

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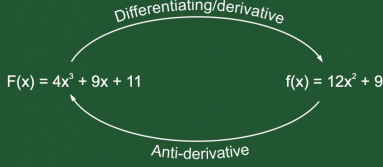
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AICTE - ஆல் பரிந்துரைக்கப்பட்ட மாடுரி பாடத்திட்டத்தின் அடிப்படையிலான பாடப்புத்தகம்.

வினைவு அடிப்படையிலான கல்வியுடன் இயைபு பெற்றது

தேசிய கல்விக் கொள்கை 2020

கணிதவியல் - II



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கரிமா சிங்

Mathematics - II

Author :	Garima Singh
ISBN 13 :	978-93-91505-04-2
ISBN 10 :	93-91505-04-X
E-ISBN 13 :	978-93-91505-04-2
Edition :	First
Pages :	176
Type of book :	Paperback
Weight (g) :	230.00
Year :	2022
Language :	Tamil
Publisher :	Khanna Publishing House
M.R.P :	Rs 238.00
Categories :	AICTE Prescribed Textbooks, Tamil Books
Condition Type :	New
Country Origin :	India



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

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AICTE PRESCRIBED TEXTBOOK AS PER MODEL CURRICULUM

Aligned with Outcome Based Education

National Education Policy 2020

ENGINEERING WORKSHOP PRACTICE



A. K. Sarathe

Engineering Workshop Practice

Author :	A. K. Sarathe
ISBN 13 :	978-93-91505-51-6
ISBN 10 :	93-91505-51-1
E-ISBN 13 :	978-93-91505-51-6
Edition :	First
Pages :	176
Type of book :	Paperback
Weight (g) :	260.00
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 252.00
Categories :	AICTE Prescribed Textbooks , Applied Sciences , English Books
Condition Type :	New
Country Origin :	India

Product Description

“ Engineering Workshop Practice Manual” is a common paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education. Engineering Workshop Practice manual covers five units- First unit deals with the carpentry, second unit is about fitting , third unit focuses on welding, fourth units discusses about sheet metal working and the fifth unit deals with electrical house wiring . The manual comprises of total seventeen workshop practical from P1 to P17 and the same are arranged in hierarchical manner from simple to complex so that students should not only focus on completing the practical and getting the marks/ grades but will also be motivated to create useful products incorporating their creative and critical thinking as well. Some salient features of the book: 1. Content of the manual aligned with the mapping of Course Outcomes, Programs Outcomes and practical outcomes. 2. Relevant theory has been included at the beginning of each practical. 3. The manual has been developed to ensure alignment with the Outcome Based Education philosophy and consisting of total seventeen workshop practical. 4. Unit wise practical are arranged in hierarchical manner from simple to complex. 5. Manual provides recent information and QR Code for E-resources etc. 6. Figures, photographs and table are inserted to improve clarity of the content.

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Author

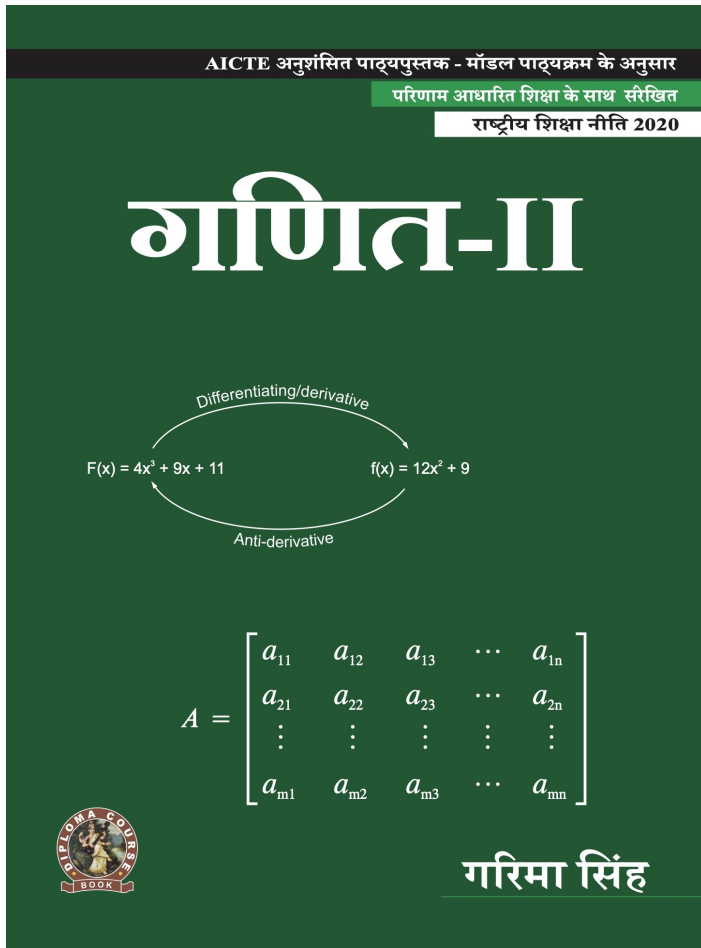
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Mathematics II

Author :	Garima Singh
ISBN 13 :	978-93-55381-91-0
ISBN 10 :	93-55381-91-3
E-ISBN 13 :	978-93-55381-91-0
Edition :	First
Pages :	176
Type of book :	Paperback
Weight (g) :	230.00
Year :	2023
Language :	Hindi
Publisher :	Khanna Publishing House
M.R.P :	Rs 224.00
Categories :	AICTE Prescribed Textbooks, Hindi Books
Condition Type :	New
Country Origin :	India

Product Description

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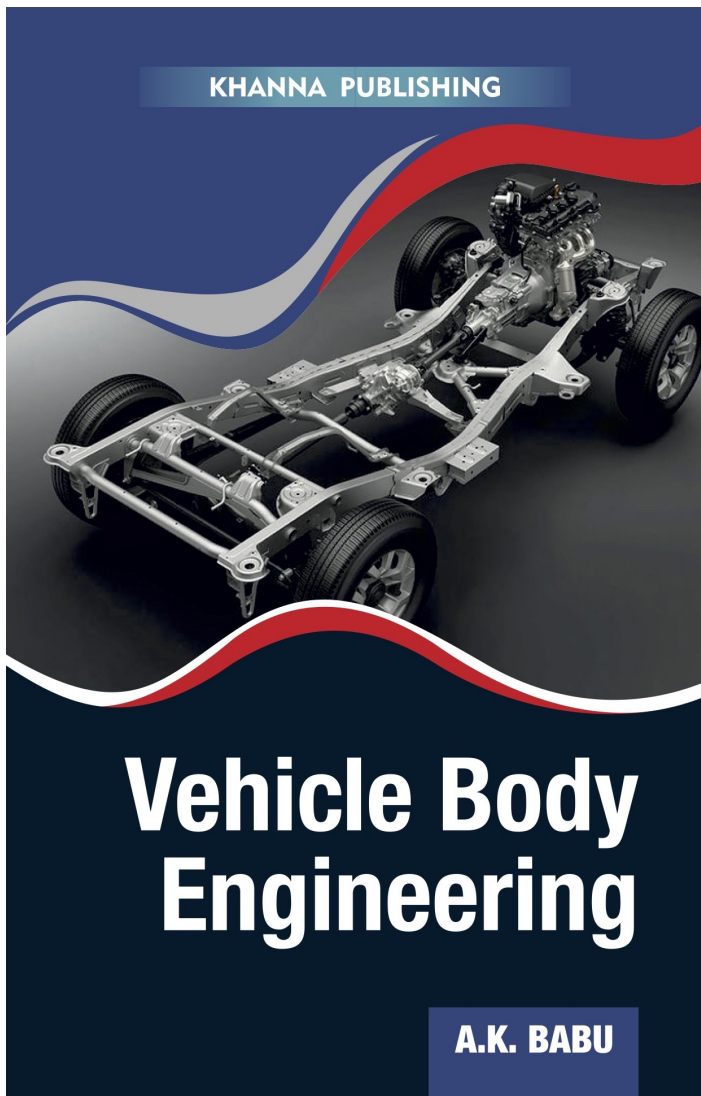
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Vehicle Body Engineering

Author :	A.K. Babu
ISBN 13 :	978-93-90779-01-7
ISBN 10 :	93-90779-01-4
E-ISBN 13 :	978-93-90779-01-7
Edition :	First
Pages :	176
Type of book :	Paperback
Weight (g) :	250.00
Year :	2021
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 199.00
Categories :	Automobile Engineering
Condition Type :	New
Country Origin :	India

Product Description

This book is designed for students undertaking a subject 'Vehicle Body Engineering/Auto Body Engineering' in the undergraduate and postgraduate programme of Automobile Engineering as per the latest revised syllabus of all Indian Universities. The book Provides a clear explanation of vehicle body parts and systems with unique illustrations. Each chapter takes the reader systematically through the details of each type of vehicle body such as car body, bus body, commercial vehicle body, etc. Key topics are emphasized and are reinforced by numerous illustrations. The book should also be a valuable source of information and reference.-



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