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Engineering Syllabus 1 Sem Rgpv

For B.E. First year Semester
I (all branches) strictly
according to the syllabus of
Rajiv Gandhi Proudyogiki

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Vishwavidyalaya, Bhopal
(M.P.) and all Engineering
Colleges affiliated to Ravi
Shankar University, Raipur(
Chattisgarh)

Strictly according to the
syllabus (2012-2013) if
Rajiv Gandhi Proudtyogiki

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Vishvidayala, Bhopal (M.P) .

Any good text

book, particularly that in
the fast changing fields
such as engineering &
technology, is not only
expected to cater to the
current curricular

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requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the

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curriculum.

Engineering Mathematics II:
For RGPV is designed as per
the specific requirements of
the third-semester paper
offered in the BE/B. Tech
syllabus of Rajiv Gandhi
Proudyogiki Vishwavidyalaya

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(RGPV). Through a balanced mix of theory and solved problems, this book focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed

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for engineers.

This book has specially been written for the students of first year who are pursuing BTech from RGPV Bhopal (Madhya Pradesh) India . The book has been designed as per the syllabus of English

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for Communication (BT103)
first year semester 1 and 2.
The students of Engineering
will find this book very
useful. This book aims at
improving communication
skills of the students of
engineering and it will also

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support engineering students
in getting good grades in
their end semester
examinations. Although, this
book aims at improving
communication skills of
Engineers /technocrats
/technologists

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/professionals yet it is not limited to Engineers/Professionals. Any one can improve his communication skills by reading it. If you want to improve your communication skills, do read this book.

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This book will also be useful for the students of other universities. It covers some very important topics like communication, verbal and nonverbal communication, barriers to communication, letter

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writing formal, informal and
business letters/ business
correspondence, business
email, technical
communication, technical
description, technical
definition, report writing,
structure and lay out of

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report, recommendation
report and precis writing.

[A Course of Mathematical
Analysis](#)

[A Textbook of Applied
Mechanics](#)

[Basic Mechanical Engineering
\(For HPTU, Hamirpur\)](#)

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Engineering Mathematics -
II: For RGPV

Numbers, Sets and Functions

A Textbook of Fluid

Mechanics

Basic Mechanical Engineering

(Be 204)

A FIRST COURSE

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Introduction to Electrodynamics

Designed as an introductory text for the undergraduate first-year students of all branches of engineering, the

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present book covers the basics of civil engineering which is required by the students in the beginning of their four-year engineering studies. This textbook

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covers four parts of civil engineering: Building materials, Building construction and architecture, Surveying, and Highway engineering. All the chapters are

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arranged in a logical sequence in order to maintain the continuity of the different parts as per the syllabus. Illustrated numerical examples are solved in the chapter

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wherever necessary. All the worked out examples have relevance to the theory and equations covered in the Chapters end exercises at the end of each chapter help

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students to absorb concepts, and thus reinforce the understanding of the subject. In a nutshell, this volume contains the complete contents of the

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course comprising four sub-branches of civil engineering in a single condensed form.

Advanced Engineering Mathematics with MATLAB, Fourth Edition builds upon

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three successful previous editions. It is written for today's STEM (science, technology, engineering, and mathematics) student. Three assumptions underlie its structure: (1) All

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students need a firm grasp of the traditional disciplines of ordinary and partial differential equations, vector calculus and linear algebra. (2)
The modern student must

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have a strong foundation in transform methods because they provide the mathematical basis for electrical and communication studies. (3)
The biological revolution

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requires an understanding of stochastic (random) processes. The chapter on Complex Variables, positioned as the first chapter in previous editions, is now moved to

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Chapter 10. The author employs MATLAB to reinforce concepts and solve problems that require heavy computation. Along with several updates and changes from the third

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edition, the text continues to evolve to meet the needs of today's instructors and students. Features: Complex Variables, formerly Chapter 1, is now Chapter

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10. A new Chapter 18:
It's Stochastic Calculus.
Implements numerical
methods using MATLAB,
updated and expanded Takes
into account the
increasing use of

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probabilistic methods in engineering and the physical sciences Includes many updated examples, exercises, and projects drawn from the scientific and engineering literature

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Draws on the author's many years of experience as a practitioner and instructor Gives answers to odd-numbered problems in the back of the book Offers downloadable MATLAB

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code at www.crcpress.com

This well-known
undergraduate
electrodynamics textbook
is now available in a more
affordable printing from
Cambridge University

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Press. The Fourth Edition provides a rigorous, yet clear and accessible treatment of the fundamentals of electromagnetic theory and offers a sound platform

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for explorations of related applications (AC circuits, antennas, transmission lines, plasmas, optics and more).
Written keeping in mind the conceptual hurdles

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typically faced by
undergraduate students,
this textbook illustrates
the theoretical steps with
well-chosen examples and
careful illustrations. It
balances text and

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equations, allowing the physics to shine through without compromising the rigour of the math, and includes numerous problems, varying from straightforward to

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elaborate, so that students can be assigned some problems to build their confidence and others to stretch their minds.

This textbook for the

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first year students of all
branches of Rajiv Gandhi
Proudyogiki
Vishwavidyalaya (RGPV),
Bhopal(M.P.), It has been
strictly according to the
new syllabus of RGPV. The

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subject matter has been explained clearly and precisely in the simplest way. Salient features are :250 Solved ExamplesA number of exercises at the end of every chapter Multi-

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Choice.

This book eases students into the rigors of university mathematics.

The emphasis is on understanding and constructing proofs and

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writing clear mathematics. The author achieves this by exploring set theory, combinatorics, and number theory, topics that include many fundamental ideas and may not be a

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part of a young
mathematician's toolkit.
This material illustrates
how familiar ideas can be
formulated rigorously,
provides examples
demonstrating a wide range

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of basic methods of proof, and includes some of the all-time-great classic proofs. The book presents mathematics as a continually developing subject. Material meeting

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the needs of readers from a wide range of backgrounds is included. The over 250 problems include questions to interest and challenge the most able student but also

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plenty of routine
exercises to help
familiarize the reader
with the basic ideas.

[Basic Engineering](#)
[Mathematics Volume - I](#)
[\(For 1st Semester of RGPV,](#)

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Bhopal)

Basic Civil Engineering

Basics of Engineering

Mathematics Vol-III(RGPV

Bhopal)

Engineering Mathematics I.

RGPV English for

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Communication

A Textbook of Engineering

Mathematics (PTU,

Jalandhar) Sem-II

Technical Communication

Principles of Lasers

Basic Engineering

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Mathematics Volume - II (For 3rd Semester of RGPV, Bhopal)

In this book, the author writes freely and often humorously about his life, beginning with his earliest childhood days. He describes his survival of American bombing raids when he was

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a teenager in Japan, his emergence as a researcher in a post-war university system that was seriously deficient, and his life as a mature mathematician in Princeton and in the international academic community. Every page of this memoir contains personal observations and striking

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stories. Such luminaries as Chevalley, Oppenheimer, Siegel, and Weil figure prominently in its anecdotes. Goro Shimura is Professor Emeritus of Mathematics at Princeton University. In 1996, he received the Leroy P. Steele Prize for Lifetime Achievement from the American Mathematical

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Society. He is the author of Elementary Dirichlet Series and Modular Forms (Springer 2007), Arithmeticity in the Theory of Automorphic Forms (AMS 2000), and Introduction to the Arithmetic Theory of Automorphic Functions (Princeton University Press 1971).

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Basic Engineering Mathematics Volume

The text material has been restructured to provide a more balanced and exhaustive coverage of the subject. The text discusses the core concepts of technical communication and explains them with

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the help of numerous examples and practice exercises. The book also provides support for soft skills laboratory sessions through a companion CD. With its in-depth coverage and practical orientation, the book is useful not only for students, but also as a reference material for

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corporate training programmes. Concepts in Computing provides a clear, concise introduction to the fundamentals of computer science. The author generates excitement, curiosity, and enthusiasm in students and leaves them with a desire to learn more about the fascinating world of

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computing. The text identifies the important relationship between computing and the disciplines of engineering and mathematics. It focuses on the three important areas of Software/Programming/Design, Computer Systems/Architecture, and Theoretical Foundations. It is clear that

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students learn faster, and retain and integrate knowledge more efficiently, if they see how each subject area connects with, and is interdependent upon others. Concepts in Computing sets a solid foundation for introductory students and is a useful companion to those entering introductory

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programming courses.

Water And Its Industrial Applications |
Fuels And Combustion | Lubricants |
Cement And Refractories| Polymers |
Instrumental Techniques In Chemical
Analysis | Water Analysis Techniques |
Question Bank

[Engineering Mechanics](#)

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[Basic Computer Engineering Precise](#)
[Basics of Engineering Mathematics](#)
[Vol-I \(RGPV Bhopal\)](#)
[Advanced Engineering Mathematics](#)
[with MATLAB](#)
[Publisher's Monthly](#)
[Concepts in Computing](#)
[An Introduction to Mathematical](#)

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Reasoning

Basics of Mechanical Engineering

A TEXTBOOK OF ENGINEERING
CHEMISTRY

This book Basic Mechanical Engineering, now in its second edition, continues to provide all essential features of the first edition, i.e. it

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contains nine chapters in all and provides a large number of solved and unsolved problems and exercises. In this edition, new topics such as Ideal Gas Laws– Characteristic Gas Equation, Avogadro's Hypothesis, Joule's Law

This book is the result of more than ten

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years of research and teaching in the field of quantum electronics. The purpose of the book is to introduce the principles of lasers, starting from elementary notions of quantum mechanics and electromagnetism. Because it is an introductory book, an effort has been made to make it self

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contained to minimize the need for reference to other works. For the same reason; the references have been limited (whenever possible) either to review papers or to papers of seminal importance. The organization of the book is based on the fact that a laser can be thought of as consisting of three

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elements: (i) an active material, (ii) a pumping system, and (iii) a suitable resonator. Accordingly, after an introductory chapter, the next three chapters deal, respectively, with the interaction of radiation with matter, pumping processes, and the theory of passive optical resonators.

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This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The

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book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a

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deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of

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electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not

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only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches

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of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on

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'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

A Course of Mathematical Analysis
Engineering Mathematics I: For RGPV
is designed as per the specific

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requirements of the first and second semester paper offered in the BE/B. Tech syllabus of Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV). Through a balanced mix of theory and solved problems, this book focuses on problem-solving techniques and engineering applications to ensure that

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students learn the mathematical skills needed for engineers.

[Communication Skills for Professionals](#)

[Basic Electrical Engineering \(Be 104\)](#)

[AutoCAD 2018 Instructor](#)

[Basic Mechanical Engineering](#)

[Polymer Science](#)

[MATERIALS SCIENCE AND](#)

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ENGINEERING

ELEMENTS OF CIVIL ENGINEERING

Engineering Mathematics - I: For RGPV

Basic Engineering Physics (M.P.)

|Quantum Physics|Charged -
Particle Ballistics|Electron
Optics|Lenses And Eye-

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Pieces|Interference|Diffraction And
Polarization|Nuclear
Physics|Digital
Electronics|Dielectrics|Lasers|Fibre
Optics

This book is your AutoCAD 2018
Instructor. The objective of this book

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is to provide you with extensive knowledge of AutoCAD, whether you are taking an instructor-led course or learning on your own. AutoCAD 2018 Instructor maintains the pedagogy and in-depth coverage that have always been the hallmark

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of the Leach texts. As the top-selling university textbook for almost a decade, the AutoCAD Instructor series continues to deliver broad coverage of AutoCAD in a structured, easy-to-comprehend manner. AutoCAD 2018 Instructor

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is command-oriented, just like AutoCAD. Chapters are structured around related commands, similar to the organization of AutoCAD's menu system. The sequence of chapters starts with fundamental drawing commands and skills and

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then progresses to more elaborate procedures and specialized applications. The writing style introduces small pieces of information explained in simple form, and then builds on that knowledge to deliver more complex

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drawing strategies, requiring a synthesis of earlier concepts. Over 2000 figures illustrate the commands, features, and ideas. AutoCAD 2018 Instructor is an ideal reference guide, unlike tutorial-oriented books where specific

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information is hard to relocate. Because these chapters focus on related commands, and complete coverage for each command is given in one place, the commands, procedures, and applications are easy to reference. Tabbed pages

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help locate tables, lists, appendices, and the comprehensive index.

[The Map of My Life](#)

[Basic Electrical and Electronics Engineering](#)

[Engineering Graphics: For RGPV](#)

[Principles and Practice](#)

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[Engineering Mathematics-II: For WBUT](#)

[Basic of Engineering Chemistry \(For RGPV, Bhopal\)](#)