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# B Tech Syllabus Dr A P J Abdul Kalam Technical University

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## BASIC ELECTRICAL ENGINEERING

Engineering Mathematics -I (Matrices and Calculus): For B.Tech First year First Semester students of JNTU, Hyderabad

## ENGINEERING CHEMISTRY WITH LABORATORY EXPERIMENTS

Engineering Physics Theory And Experiments : (As Per The New Syllabus, B. Tech. I Year Of U.P. Technical University)

Engineering Mathematics - II: for B.Tech. First Year (Second Semester) Students of JNTU Hyderabad

Environmental Science and Engineering (For Anna University)

Semiconductor Physics for Engineers

A Textbook of Engineering Mathematics (PTU, Jalandhar) Sem-III/IV

Foundation of Engineering Mathematics-II

Engineering Mathematics Volume - I (For 1st Semester of JNTU, Kakinada)

Engineering Mathematics (according to U. P. Technical University Syllabus)

Basics of Biotechnology

Chemistry for Engineers

A TEXTBOOK OF ENGINEERING MATHEMATICS (SEM-III).

Biology for Engineers

Bioinformatics: Sequence Alignment and Markov Models

Engineering Mathematics Volume - II (Numerical Methods and Complex Variables) (For 1st Year, 1st Semester of JNTU, Kakinada)

Engineering Mathematics Volume III (Linear Algebra and Vector Calculus) (For 1st Year, 2nd Semester of JNTU, Kakinada)

Principles of Reliable Soldering Techniques

Textbook Of Engineering Physics -

NEEDS OF ENGINEERING STUDENTS: A FRAMEWORK FOR EST COURSE DESIGN

Mechanics (Physics for Civil Engineering and Print Technology)

Engineering Physics: Vol. 1

Engineering Mathematics-II

Engineering Chemistry

Krishna's Communication Lab (English): For B.E./ B. Tech./ B. Arch. Students of 2nd Semester of all Engineering Colleges Affiliated to U.P. Technical University Lucknow

Introduction to Parallel Computing

Engineering Mathematics - I: for B.Tech. First Year (First Semester) Students of JNTU Kakinada

Basic Electrical Engineering

Fundamentals of Electrical Engineering

Introduction to Engineering Mathematics - Volume III [APJAKTU]

Programming in C and Data Structures (VTU)

Textbook Of Engineering Physics

COMMUNICATION SKILLS FOR PROFESSIONALS, Second Edition

Comprehensive Physics for Engineers

A Textbook of Engineering Mathematics (MTU, Noida) Sem-I

A Textbook of Engineering Mathematics (U.P. Technical University, Lucknow) Sem-II

## BASIC ELECTRONICS

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## RILEY CHARLES

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BASIC ELECTRICAL ENGINEERING S. Chand Publishing

This book spreads into Five Chapters Covering the various aspects on Numerical Methods for Engineers. This book Cover's the syllabus of Anna University B.E., Courses in Mechanical Engineering, Automobile Engineering, Civil Engineering, Production Engineering, Aeronautical Engineering and Electrical and Electronics Engineering.

**Engineering Mathematics -I (Matrices and Calculus): For B.Tech First year First Semester students of JNTU, Hyderabad** Lulu.com

This book is designed based on revised syllabus of Gujarat Technological University, Gujarat (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

ENGINEERING CHEMISTRY WITH LABORATORY EXPERIMENTS Laxmi Publications

'Communication Skills for Professionals' is a time-tested book which aims to equip students, academicians and professionals with all the necessary skills to communicate effectively, so that they can thrive in this competitive world. WHAT DOES THE BOOK CONTAIN This compact and student friendly text is divided in several sections, and covers several topics like Detailed section on Vocabulary. • Items of: grammar; verbs; phrasal verbs; voices; tenses; transformation and synthesis of sentences. • 'Rectification of Grammatical Errors' in order to identify and correct errors. • Analysis of the 4 skills of Listening, Speaking, Reading and Writing. • Skills of Technical Writing and Public Speaking. • Body Language and Group Discussion. All these and more aims to make the learner a winner, not only in his personal life, but also in his Professional life. The book is easy to read and understand. Each point is illustrated with examples from practical life. Even the grammar exercises and all other activity-based questions have been skillfully designed and worked out in Classrooms. WHAT IS NEW TO THIS EDITION • In the modern business world where speed and ease of communication is very important E-mails have become widely prevalent. An E-mail can even make or break a career. • Detailed discussions have been shared in this Edition on how to write the perfect E-mail. • A completely new chapter has been added on social media tools like LinkedIn, Facebook and Twitter. Job seekers would learn how to upload their portfolios and highlight their skills and achievements and connect with prospective employers and collaborators. Book Reviews "I have been a regular user of the book by Prof. Nira Konar and found it a very reliable resource. The chapters on 'Group Discussion and Body Language' are particularly helpful. Besides, the chapter on 'Communication Theory' has been relevantly and effectively explained keeping in mind the needs of the students. Overall, the book is very accessible by all levels of students. It is a part of recommended reading for my students." - Nandini Mukherjee Course Coordinator, Department of

Communicative English, St. Xavier's College, Kolkata "An extremely concise, lucidly written and reader-friendly book, that serves as a handy reference manual for all in-service English language teachers of degree engineering colleges. The B.Tech Communicative English syllabus has been closely followed, with detailed sections on grammar, writing and comprehension. The chapters on vocabulary take an insightful look at etymology, word origins, synonymy and antonymy. Detailed word lists and practice exercises make the section extremely helpful for practicing teachers. The sections on grammar are fairly detailed, offering a thorough analysis of Verbs, Tenses, Voice, Narration, Transformation of Sentences and Error Correction. There are plenty of practice exercises for the teacher to choose from. Reading skills are well discussed and technical writing is given all the importance and predominance it usually occupies in any course on technical communication. The section on report writing is extremely useful as a guide for teachers for teaching students the formatting and writing essentials in documenting reports. There is a section on professional speaking too, which enriches the content of the book. On the whole, the book is of continuing usefulness and relevance in any technical English course and will be used by teachers and students alike for many years to come." - Dr Indrajit Bose Assistant Professor of English, GNIT, Kolkata "Dr. Konar's book acts as a comprehensive guide to the students of professional, technical as well as basic courses to hone their language skills. The language of the book is persuasive, fluid and student-friendly which makes it useful even to the first generation learners of English. The scope of this book extends from word-building to report writing and covers almost all the thrust areas of language training in a nutshell. Hence, it deserves a shelf-space in the library of any institution." - Ayushman Banerjee, Assistant Professor in English, Haldia Government College, Kolkata "This is one of the best books on 'Communication' available in the market. Dr. Nira Konar is a brand by herself whenever English Language Teaching (ELT) comes into discussion. This compact edition discusses in detail the various aspects of language ranging from Vocabulary, Grammar, Syntax to effective communication in business. The book gives a clear reading of LSRW skills such as writing, reading, listening, and public speaking. It further confers different means of effective communication, situational dialogues, body language, and group discussions. The book follows the present MAKAUT curriculum of English for B.Tech 1st year 2nd Semester (HM-HU 201 & HM-HU 291) thoroughly. It not only gives an overview of the Theory syllabus but also provides details of Language Laboratory activities as well. "Communication Skills for Professionals" enables the readers to express themselves clearly and communicate effectively at the workplace. This book not only deals with the rudiments of communication but also gives insights into the body language and provides important tips on how to be successful at interviews and group discussions. Primarily intended for students of engineering and technology, the book will also be useful for Management students and the students of all disciplines who want to acquire the skill in corporate communication and excel in their respective professional areas." - Sohini Datta Assistant Professor, Department of Management, IEM, Sector V, Salt Lake, Kolkata "Easy and in-depth writing on the subject is the aim of this book. The author has put in here the fruits of teaching the students from the wide-ranging and first-hand

knowledge of business speaking and writing, and listening in a friendly way. It is enriched with extensive references. On every page of the book the students will see how a simpler style of English is balanced with their need." - Dalia Sen Assistant Professor, Bengal Institute of Technology (Under Techno India Group), Kolkata

Engineering Physics Theory And Experiments : (As Per The New Syllabus, B. Tech. I Year Of U.P. Technical University) Booksclinic Publishing

This edition is an improvement on the earlier edition, made with some topics have been updated and inclusion of previous Question Paper problems at appropriate places and Previous GATE Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader.

*Engineering Mathematics - II: for B.Tech. First Year (Second Semester) Students of JNTU Hyderabad* Laxmi Publications

Biology is an important part of engineering analysis and design, and it is important that students in engineering programs, as well as ecologists and environmentalists, become well-acquainted with the fundamentals of biology as they relate to their field. This is the first book on the subject designed specifically for students of BTech and BE courses, as the subject has now been introduced to the syllabus.

**Environmental Science and Engineering (For Anna University)** S. Chand Publishing

Introduction to Engineering Mathematics Volume-III is written for the B.E./B.Tech./B. Arch. students of third/fourth semester of Dr. A.P.J. Abdul Kalam Technical University (AKTU) in according to the new syllabus. The book is divided into twenty-five chapters covering all the important topics of the subject. It contains fairly a large number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination.

*Semiconductor Physics for Engineers* Cambridge University Press

Environmental Science & Engineering

**A Textbook of Engineering Mathematics (PTU, Jalandhar) Sem-III/IV** Laxmi Publications, Ltd. Engineering Mathematics

Foundation of Engineering Mathematics-II PHI Learning Pvt. Ltd.

"Engineering Mathematics - I [Calculus and Differential Equations]" has been written strictly according to the revised syllabus (R20) of the First year (First Semester) B. Tech students of Jawaharlal Nehru Technological University, Kakinada. Topics are explained in a streamlined manner with minimal error precision as the primary goal of this book is to make students understand the concepts with minimum effort. Additional Previous GATE Questions at the end of each chapter with Previous Question Paper problems makes this book an ideal choice for undergraduate students

*Engineering Mathematics Volume - I (For 1st Semester of JNTU, Kakinada)* S. Chand Publishing  
This book has been designed based on VTU's 1st year syllabus. It will familiarize the students with the use of all the important features of C language. This book covers a large variety of program exercises in greater depth, and provides excellent table comparison along with theory explanation. The goal of this book is to provide the perfectly suitable reading material to the students and help

them with examination preparedness. KEY FEATURES • 100 percent coverage of VTU syllabus • Exhaustive coverage of Programming Exercises in each chapter. • All laboratory programs as per syllabus covered in a separate chapter • A separate section for Frequently Asked Questions (FAQs) • Model question paper to appraise the students with the examination scheme

**Engineering Mathematics (according to U. P. Technical University Syllabus)** Firewall Media  
"Engineering Mathematics - II" has been written strictly according to the revised syllabus (R18) 2018 - 19 of the First year (Second Semester) B. Tech students of JNTU, Hyderabad. It covers differential equations, linear differential equations, multiple integrations, vector differentiation and integration lucidly and tend to enclose Previous Question Paper issues at suitable places and conjointly Previous GATE Questions at the end of every chapter for the benefit of the students.

Basics of Biotechnology Laxmi Publications

GET FULLY UP-TO-DATE ON BIOINFORMATICS-THE TECHNOLOGY OF THE 21ST CENTURY

Bioinformatics showcases the latest developments in the field along with all the foundational information you'll need. It provides in-depth coverage of a wide range of autoimmune disorders and detailed analyses of suffix trees, plus late-breaking advances regarding biochips and genomes. Featuring helpful gene-finding algorithms, Bioinformatics offers key information on sequence alignment, HMMs, HMM applications, protein secondary structure, microarray techniques, and drug discovery and development. Helpful diagrams accompany mathematical equations throughout, and exercises appear at the end of each chapter to facilitate self-evaluation. This thorough, up-to-date resource features: Worked-out problems illustrating concepts and models End-of-chapter exercises for self-evaluation Material based on student feedback Illustrations that clarify difficult math problems A list of bioinformatics-related websites Bioinformatics covers: Sequence representation and alignment Hidden Markov models Applications of HMMs Gene finding Protein secondary structure prediction Microarray techniques Drug discovery and development Internet resources and public domain databases

Chemistry for Engineers Blue Rose Publishers

This book is designed to build up a strong foundation for the new students entering in Engineering field. It is strictly as per the revised syllabus prescribed by AICTE model curriculum. It has been written to fulfil all the requirements of B.E/B.Tech second semester students (All Branches of Engineering) of Chhattisgarh Swami Vivekanand Technical University, Bilai. The essential feature of this book is that apart from theoretical background, it provides sufficient number of solved examples with detailed steps in easy and simple language along with problems for practice. Suitable figures have also been incorporated to ensure an easy understanding of the concepts. Short and very short answer type questions are also included. We hope that this book will be of great use for which it has been designed

**A TEXTBOOK OF ENGINEERING MATHEMATICS (SEM-III).** Laxmi Publications

Globalization has been marked by technological developments and increasing interconnectedness that makes communication across the world instantaneous. This has resulted in a sharp increase in the number of world organizations and transnational corporations entering into business in the local markets. In the face of such rapid developments the world over, a developing country like India is competing in the global market to develop indigenous technology on par with the developed

countries and promote the economic interests of the nation.

*Biology for Engineers* Firewall Media

Engineering Mathematic

Bioinformatics: Sequence Alignment and Markov Models Vikas Publishing House

A comprehensive guide for students and practitioners to parallel computing models, processes, metrics, and implementation in MPI and OpenMP.

**Engineering Mathematics Volume - II (Numerical Methods and Complex Variables) (For 1st Year, 1st Semester of JNTU, Kakinada)** S. Chand Publishing

This book covers the latest syllabus of B.Tech. 1st year (Civil Engineering & Printing Technology) UG Course of Maharshi Dayanand University, Rohtak (Haryana) and G-scheme of AICTE. The book covers almost 100% of the syllabus. Number of solved problems along with important questions and previous year university exam papers are enclosed in the book.

*Engineering Mathematics Volume III (Linear Algebra and Vector Calculus) (For 1st Year, 2nd Semester of JNTU, Kakinada)* New Age International

Soldering, Though Being An Age Old Phenomenon, Is Still Perhaps A Difficult Subject To Understand, Due To Its Interdisciplinary Nature. In This Book, Efforts Have Been Made To Describe The Physical Theories Responsible For Making A Good Joint, The Chemical Actions During Its Formation And The Electrical, Thermal And Mechanical Requirements Essential To Ensure Its Reliability. The Four M'S; Material, Machine, Method And Man, Necessary For Designing A Solder Joint Have Been Described In Detail. Further, Process Control, Solder Joint Inspection Criteria, Solder Joint Defect Analysis And Its Repair/Rework Are Also Discussed. Additionally, Brief Introductions To Surface Mount Devices (Smd) And Surface Mount Technology (Smt) Have Been Included As Annexures. The Book Will Be Useful In Industry, And To Design Production, Process Planning And Quality Control Engineers, As Well As In Engineering/Technical Colleges To Students As A Reference Book For The Present And, Hopefully,

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**Principles of Reliable Soldering Techniques** PHI Learning Pvt. Ltd.

This book is prepared as per the syllabus of Basic Electronics for first year B. Tech (Engineering) course under Visvesvaraya Technological University, Karnataka using the reference books given in the course syllabus. Authors have tried to elucidate the topics such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of topics.

Textbook Of Engineering Physics - Blue Rose Publishers

This book is primarily intended for the first year B.Tech students of all branches for their course on engineering chemistry. The main objective of this book is to provide a broad understanding of the chemical concepts, theories and principles of Engineering Chemistry in a clear and concise manner, so that even an average student can grasp the intricacies of the subject. It includes the general concepts of structure and bonding, phase rule, solid state, reaction kinetics and catalysis, electrochemistry, chemical thermodynamics and free energy. Besides, the book introduces topics of applied chemistry like water technology, polymer chemistry and nanotechnology. Each theoretical concept is well supported by illustrative examples. The book also provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts. KEY FEATURES (i) Each chapter of the book provides a clear and easy understanding of the definitions, theories and principles. (ii) A large number of well-labelled diagrams help to understand the concepts easily and clearly. (iii) Chapter-wise glossary and important mathematical relations are given for quick revision. (iv) Provides multiple choice questions with answers, short questions and long questions for practice.a