

## Engineering Physics Diploma

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About Engineering Physics for B.Tech Students. In order to create a link between school physics concepts and engineering courses, Engineering Physics has introduced for the first-year students for all branches. It focuses on the basic concepts of modern science such as Engineering applications of Acoustics, fundamentals of crystal physics, material science, and Photonics, etc.

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Diploma of Higher Education in Physics Develop the knowledge and skills needed to explore the smallest and largest scales of the Universe. You'll learn to describe, analyse, test and explain phenomena in the physical world objectively and quantitatively, using appropriate mathematical tools and experimental methods. Key features of the course

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### Compact & Precise Notes for Applied Physics 2, for Students of Polytechnic Diploma

Engineering Physics is a complete textbook written for the diploma students according to the syllabi followed in the Indian institutes offering diploma courses in engineering. The book aims to provide a thorough understanding of the basic concepts, theories and principles of Engineering Physics, in as easy and straightforward manner as possible, to enable the average students grasp the intricacies of the subject. Special attempts have been made to design this book, through clear concepts, proper explanations with necessary diagrams and mathematical derivations to make the book student friendly. Besides, the book covers some advanced topics such as communication systems, ultrasonics and laser technology with their wide range of applications in several fields of science, technology, industry and medicine, etc. The book not only provides a clear theoretical concept of the subject but also includes a large number of solved problems followed by unsolved problems to reinforce theoretical understanding of the concepts. Moreover, the book contains sixteen chapters and each chapter contains glossary terms, short questions, and long questions for practice. **KEY FEATURES** □ Logically organised content for sequential learning □ Learning outcomes at the beginning of each chapter □ Important concepts and generalisations highlighted in the text □ Chapter-end quick review

This new book serves the purposeful need for students of diploma in engineering whose courses of study follows this book in two volume . Vol (I) deals with basic physics in which we have discussed Units & Measurement , Heat , Light & Modern physics .The volume (II) widely covers with Applied Physics in which we have discussed Kinematics and some chapter of General Physics like Angular motion & Simple Harmonic motion and kinetics . This volume also covers the study of Non □ destructive testing of materials as well as Acoustics of building . Chapter 1.2 (i) explains about rest & motion in one dimension in a given frame of reference of the observer in brief . On the basis of the above definition the observer frame of reference has been divided into two categories in chapter 1.2(ii) as Inertial & Non □inertial frame of reference in which it has been briefly explained using Newton law of motion as inertial frame of reference on the other hand a frame of reference in which Newton law of motion cannot be defined is called Non-Inertial frame of reference with an example as Earth is an Inertial frame of reference but since it is revolving around the sun it may not be strictly speaking to be an Inertial frame of reference . In chapter 1.2(iii) the of Definition of Distance, Displacement, Speed , Velocity and Acceleration has been illustrated with suitable diagram .After a brief introduction about the above physical quantities used to define the motion of a body Rectilinear Motion has been described with following equation as  $v = u + at$  ,  $S = ut + \frac{1}{2} a t^2$  &  $v^2 = u^2 + 2as$  in chapter 1.2(iv) . Chapter 1.2(v) aims to study a body which is travelling a distance travelled in nth second .On the basis of which it became simpler to describe the uniform motion of a body in different interval of time . The above equation of motion may be illustrated using Time □position graph in chapter 1.2(vi) and Velocity-Time Diagrams for uniform velocity in chapter 1.2(vii).Further in chapter 1.2(viii) the motion of a Uniform acceleration and uniform retardation and equations of motion for motion under gravity has been described extensively . In the next

chapter 1.3: (i) Angular Motion is being defined with following parameter as angular displacement , angular velocity and acceleration . chapter 1.3(ii) gives Relation between angular velocity and linear velocity . Chapter 1.3(iii) has extensively discussed the three equation of motion for a body on circular path .As the above mentioned equation for distance travelled by a particle in nth second the Angular distance travelled by particle in nth second has been mentioned in chapter 1.3(iv) . In chapter 1.3(v) the definition of S.H.M. has been described as projection of uniform circular motion on any one diameter and Graphical Representation of displacement velocity, acceleration of particle in SHM for S.H.M. starting from mean position and from extreme position in chapter 1.3(vi). The next unit chapter 2.2:(i) begins with study of Concept of Force in which different types of forces in nature may have been classified . Chapter 2.2(ii) discusses two types of forces as Contact & Non-contact forces . Further study has been given with 2.2(iii) study the definition of momentum & 2.2(iv) Laws of conservation of linear momentum . An extensive study of effect of force on basis of time of influence has been discussed as impulse & impulsive force in chapter 2.2(v) .Chapter 2.2(vi) is a brief study of Newton's laws of motion with equations & applications. Chapter 2.2(vii) is the study of Motion of lift . In the next unit chapter 2.3(i) has been covered with the definition of work, Power & Energy . Chapter 2.3 (ii) is Equation for P.E. & chapter 2.3(iii) is study of Work-Energy Principle with chapter 2.3(iv) is Representation of work by using graph & 2.3 (v) is graphical study of Work Done by torque Chapter 3.2(i) explains the definition of material science as branch of applied science relation with solid state physics or solid state chemistry in which one can study about structure of material and their properties as a interdisciplinary study about materials for applicable purposes . Further chapter 3.2 (ii) illustrate classification of materials in two categories in which material has been classified (a) Metals (e.g. Iron ,Gold , Aluminum , Silver Copper etc) & (b)Non-Metals ( e.g. Leather ,Rubber , plastics ,asbestos ,carbon etc.) . A detail study has been focussed on Testing methods of materials in chapter 3.2 (III) for which the requirement of testing of materials is subjected for quality maintenance of the material in engineering for application purposes . A wide range of method has been described in detail for most cheap and suitable application of maintained quality of the material in industries .Despite its advantages the limitations of N.D.T method has that has been covered in chapter 3.2(IV). The different names of N.D.T. Methods used in industries has been discussed in chapter 3.2(V) as X-ray radiography , Gamma-ray radiography , Magnetic particle inspection , Ultrasonic testing , Damping method & Electrical Method . Factors on Which selection of N.D.T .depends has been discussed in chapter 3.2(vi) as Load ,Temperature , Composition , Grain-size, Thickness of the material & Service condition . For application point of view Study of principle, Set up & Procedure has been extensively covered in for X-ray radiography, Gamma-ray radiography, Magnetic particle inspection, Ultrasonic testing , Damping method & Electrical Method . Chapter 3.2(vii) Working , advantages ,limitations , Applications and Application code of N.D.T. methods as Penetrant method, Magnetic particle method ,Radiography, Ultrasonic , Thermography has been covered in this chapter .. Chapter 4.2(i ) is the of study Acoustics the branch of physics in which we study about sound . The next chapter 4.2(ii ) studies about Characteristics of audible sound and chapter 4.2(iii) Intensity & Loudness of sound ,Weber and Fechner's Law . Further chapter 4.2(iv) discusses the Limit of intensity and loudness and chapter. Chapter 4.2(v) is the study of Echoes & chapter 4.2(vi) is the study of Reverberation & Reverberation time (Sabine's formula) Timbre(quality of sound) of sound have been studied in chapter 4.2(vii) How Pitch or frequency of sound is related to audible sound wave and music system is the study part of 4.2(viii) . The Factors affecting Acoustical planning of auditorium reverberation has been briefly outlined in chapter 4.2(ix). In an auditorium design the Creep Focusing is an important study of for checking the long term deformation in building has been given in chapter 4.2(x) . The characteristics of sound wave as standing wave has been studied in chapter 4.2(xi). The coefficient of sound wave absorption has been studied in chapter 4.2(xii) .The Sound insulation & Noise pollution and the different ways of controlling these factor has been given in 4.2(xiv) & 4.2(xv). The chapter 4.3 (ii) is the study of Definition of luminous intensity, intensity of illumination with their SI units . Chapter 4.3(iii) is the study Inverse square law and Photometric equation . In photometry chapter 4.3(iv) Bunsen's photometer-ray diagram has been introduced & Chapter 4.3(vi) is the study of Need of indoor Lighting . Chapter 4.3(vii) is the study of Indoor lighting schemes .and factors affecting Indoor

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Lighting .

It comprises of 12 chapters written in according with the syllabus framed by the corresponding boards of andhra pradesh

This book aims at providing a complete coverage of the needs of First Year students as per S.B.T.E's. revised syllabus. The entire revised syllabus has been covered keeping in view the non-availability of the complete subject matter through a single source. The difficult articles have been explained in a simple language providing, wherever necessary, neat and well explained diagrams so that even an average student may be able to follow it independently. A sufficient number of solved examples and problems with answers and SBTE questions are given at the end of each topic. Formulae specifying symbol meaning are enlisted before solving the examples.

The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.

This Book Is Based On The Common Core Syllabus Of Up Technical University. It Explains, In A Simple And Systematic Manner, The Basic Principles And Applications Of Engineering Physics. After Explaining The Special Theory Of Relativity, The Book Presents A Detailed Analysis Of Optics. Scalar And Vector Fields Are Explained Next, Followed By Electrostatics. Magnetic Properties Of Materials Are Then Described. The Basic Concepts And Applications Of X-Rays Are Highlighted Next. Quantum Theory Is Then Explained, Followed By A Lucid Account Of Lasers. After Explaining The Basic Theory, The Book Presents A Series Of Interesting Experiments To Enable The Students To Acquire A Practical Knowledge Of The Subject. A Large Number Of Questions And Model Test Papers Have Also Been Added. Different Chapters Have Been Revised And More Numerical Problems As Per Requirement Have Been Added. The Book Would Serve As An Excellent Text For First Year Engineering Students. Diploma Students Would Also Find It Extremely Useful.

This fourth edition of Physics for the IB Diploma has been written for the IB student. It covers the entire new IB syllabus including all options at both Standard and Higher levels. It includes a chapter on the role of physics in the Theory of Knowledge along with many discussion questions for TOK with answers. There are a range of questions at the end of each chapter with answers at the back of the book. The book also includes worked examples and answers throughout, and highlights important results, laws, definitions and formulae. Part I of the book covers the core material and the additional higher level material (AHL). Part II covers the optional subjects.

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