

Syllabus Of Civil Engineering Diploma Scte Assam

Engineering Education has emerged as a fast developing 'discipline' in itself with universities across the world opening up exclusive 'Departments of Engineering Education' which is also impacting the socio-economic system in India. Most of the engineering institutions in India are part of the 'hub-and-spoke' university education system unique to India.

Scientifically developing the 'Outcome-based Curriculum' (OBC) uniformly across India has been a daunting task, due to the dearth of an authentic book on OBC addressing the need of the Indian Engineering Education System. This being the first book of its kind in India and with OBC serving as the 'Constitution' of 'Outcome-based Education' (OBE), it will go a long way to address this need. The unique feature of this book is that it is replete with examples to explain the various concepts of planning, designing and implementing the OBC in engineering institutions. Different aspects of Outcome-based Teaching Learning (OBTL) and Outcome-based Assessment (OBA) are also discussed vividly. Apart from the examples weaved into the lucidly written seven chapters, additional examples and important formats are provided in the 'Annexures'; another unique feature of this book. Every engineering UG, PG, or Diploma teacher would be happy to possess a personal copy of this book for 24x7 access which will help to clear their doubts as it arises then and there.

TARGET AUDIENCE • Technical Instruction • Technical Teacher Trainers • Curriculum Specialists/Instructional Designers • Education Policy Makers What the reviewers' say "The technical education has to adopt Outcome-Based Curriculum and there was a dire need of authentic literature which would serve as a base document for scientifically

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developing OBC. The book reflects the expertise of both the authors who have more than 30 years of experience in industry and academics in designing and implementing different variants of OBC for various technical education programmes. Such a book will serve as a reference for future generations to avoid 're-inventing the wheel again and again.' —Dr. M.P. Poonia, Vice-Chairman, AICTE "National Institute of Technical Teacher Training and Research (NITTTR) Bhopal has been spearheading different forms of OBC for the last five decades in which the authors have contributed substantially. Care has been taken such that this book will not only benefit the Indian engineering education system, but also the engineering teaching fraternity at the international context."—Dr. C. Thangaraj, Director, NITTTR Bhopal

Worksheets are included to act as observation book for taking readings. Tips on practical application of the tools and instruments are given Adages found in each page are unique for motivation and personality development of the students Illustrations of the tools used in various sections of workshop are provided

Mechanical Engineering is a simple e-Book for Mechanical Diploma & Engineering Course, Revised Syllabus in 2018, It contains objective questions with underlined bold correct answers MCQ covering all topics including all about the latest & Important about Engineering Physics, Applied Mechanics, Engineering Drawing Graphics, Material Science, Mechanical Drafting, Communication Skills, Basic Civil Engineering, Manufacturing Engineering, Fluid Mechanics, Thermal Engineering, Thermodynamics Theory of Machines, Strength of Materials, CADD, Applied Electronics and Electrical Engineering, Metrology and Instrumentation, CADD (Computer Aided Machine Design and Drawing), Plant Maintenance and Safety, Thermal Engineering, Computer Aided Manufacturing, Design of Machine Elements, Tool

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Engineering, Manufacturing Engineering, Industrial Manufacturing, Industrial Design and lots more.

This book has been written for ME/M.TECH/BE/B.Tech students of All University with latest syllabus for All Department especially Civil Engineering. The basic aim of this book is to provide a basic knowledge in Hydraulic Structures for engineering students of UG and PG degree, diploma & AMIE courses and a useful reference for these preparing for competitive examinations. Also it is very useful for Arts and Science Students. All the concepts are explained in a simple, clear and complete manner to achieve progressive learning. This book is divided into chapters as a four modules. Each module is well supported with the necessary illustration practical examples.

For students of civil engineering, the basic course on Strength of Materials is not enough to start their engineering career. They need an advanced course like Mechanics of Structures to understand strength and stability of several components of civil engineering structures. Hence, Mechanics of Structure is taught to all polytechnic students of civil engineering. It is written in SI units. Notations used are as per Indian standard codes. Apart from West Bengal Polytechnic students of civil engineering branch, it is hoped that the students of other states with similar syllabus may also find this book useful. **KEY FEATURES** • 100 per cent coverage of new syllabus • Emphasis on practice of numericals for guaranteed success in exams • Lucidity and simplicity maintained throughout • Nationally acclaimed author of over 40 books

The book is primarily intended for Engineering graduate courses of The Institution of Engineers(India), AMIE Section B and other professional examinations. This book has been

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designed to meet the needs of civil Engineering curricula for the courses in Geotechnical and Foundation Engineering. Subject of Geotechnical Engg. covers all the properties of soil, their behaviour and their Engineering applications in order to build large structures like dam, multistorey buildings etc. The book covers the syllabus in soil mechanics and foundation Engineering for the degree and diploma students in Civil Engineering and is designed to be useful to practising Engineers as well. The number of illustrative problems as well as the number of practice problems is made as large as possible so as to cover the various types of problems. Summary of main points has been given at the end of each chapter.

This book is designed for course on Basic Civil and Mechanical Engineering. The book closely follows the undergraduate engineering syllabus. The text has been infused with several short answer questions, fill in the blanks and true or false statements which will provide competitive edge to students and prove instrumental in preparation of competitive and university examinations.

B.Sc. Practical Physics

This book has been written for the second year BE/B.Tech students of All University with latest syllabus for All Department. The basic aim of this book is to provide a basic knowledge in Civil Engineering materials and Construction for

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engineering students of degree, diploma & AMIE courses and a useful reference for these preparing for competitive examinations. Also it is very useful for Arts and Science Students. All the concepts are explained in a simple, clear and complete manner to achieve progressive learning. This book is divided into four chapters. Each chapter is well supported with the necessary illustration practical examples. I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also.

For students of civil engineering, the basic course on strength of materials is not enough to start their engineering career. They need an advanced course like Mechanics of Structure to understand strength and stability of several components of civil engineering structures. Hence, Mechanics of Structure is taught to all polytechnic students of civil engineering. This book follows the West Bengal Polytechnic syllabus for civil engineering branch. It is written in SI units. Notations used are as per Indian standard codes. Apart from West Bengal Polytechnic students of civil engineering branch, it is hoped that the students of other states with similar syllabus may also find this book useful.

KEY FEATURES

- 100 per cent coverage of new syllabus
- Emphasis on practice of numericals for guaranteed success in exams
- Lucidity and simplicity maintained throughout
- Nationally acclaimed

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author of over 40 books

This book is the most well-organised, useful and up to date about career guidance for all students. Covering more than 100 topics in fields that range from school to college. Students can check at a glance summary for chosen careers to learn about career paths, examinations and more. Today, We live and breathe in the information age where all knowledge is at our fingertips, but students get confused choosing career from the wide array of career fields available after 10th & 12th standard. All the career options have been given in this book. I have included here- 1.

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This book has been written for BE/B.Tech students of All University with latest syllabus for All Department especially Civil Engineering. The basic aim of this book is to provide a basic knowledge in Water Resource Engineering for engineering students of degree, diploma & AMIE courses and

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a useful reference for these preparing for competitive examinations. Also it is very useful for Arts and Science Students. All the concepts are explained in a simple, clear and complete manner to achieve progressive learning. This book is divided into five chapters as a five modules. Each module is well supported with the necessary illustration practical examples.

“Materials Of Construction-II” is intended to be used as a text book for Second Semester Diploma in Civil Engineering and is designed for comprehensively covering all topics relevant the subject as per the Syllabus Prescribed by the Board of Technical Education, Karnataka. The book contains six chapters. Chapter 1 - Cement, manufacture of cements, types and tests on cement discussed. Chapter 2 & Chapter 3 - deals with aggregates, tests of aggregates, mortar and its types. Chapter 4 - in this chapter concept of cement concrete, types, method of placing, compacting, curing, discussed. Chapter 5 - in this chapter paints and its types discussed. Chapter 6 - Consists of new modern materials used in Civil Engineering works and its properties. At the end of each chapter, Points to remember, Fill up the blanks & Descriptive type questions is given. To enhance the utility of book, Multiple Choice Questions are given towards the end of the book along with answers. This should benefit the students preparing for Common Entrance Test. It is hoped that this book will be immense use to teachers and students of Polytechnics. I wish to express my gratitude to MEI Polytechnic, Bangalore for providing me an opportunity to bring out this text book. I am grateful to Sri Nitin S.Shah, M/s Sapna Book House (P) Ltd., Bangalore for publishing this book within a reasonable time. I am thankful to M/s Datalink, Bangalore for neatly typing the manuscript of this book. I also express my sincere thanks to Sri C.Chandrashekar, HOD (Civil) and colleagues for their encouragement. The readers

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are welcome to send their valuable comments and suggestions for further improvement of this book.

"Report of the Dominion fishery commission on the fisheries of the province of Ontario, 1893", issued as vol. 26, no. 7, supplement.

The increasing requirement for Junior

Engineers/Technicians in PSUs has created a large job opportunities for the diploma holders all over India. Every PSU conducts its own qualifying exam based on the vacancies available for various positions such as Junior Engineer and Technician. This series has been thoroughly updated to equip the diploma engineers appearing for the exams of BHEL, BEL, GAIL, IOCL, HPCL, ONGC, DMRC, DRDO, Railway, Staff Selection Commission and other diploma engineering competitive examinations. It aids in fast revision through key notes such as terms, definitions and formulae. The series also provides conceptual clarity to ease in attempting questions. A vast collection of questions has been categorized under two levels? questions for practice and previous years? questions of various PSU examinations to give you a feel of the actual exam. Features ? Theory and key concepts in a systematical manner ? Ample number of MCQs for practice in each chapter ? Previous years? questions to familiarize you with the pattern and level of the examination

Railway Track Engineering presents conventional methods of track construction, maintenance and monitoring, along with modern sophisticated track machines. It also comprehensively covers design details and specifications of important track

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components Changes in the revised edition include: Explanation of the hitherto little understood phenomenon of rolling contact fatigue in rails and practical steps to deal with it. New technology of aluminothermic rail welding. New guidelines for ultrasonic rail flaw detection. Ballastless track for metros, mainlines and washable aprons. Track standards for ultra high-speed lines in India. Track structure for Dedicated Freight Corridors. Technology of fully mechanized track construction with the deployment of simple track laying equipment to highly sophisticated track-laying trains. Richly illustrated with photographs and line drawings, this book will be useful to professionals and students.

2020-21 SSC JE (All Sets 2018 & 2019) ELECTRICAL ENGINEERING SOLVED PAPERS

This Book Provides A Systematic Account Of The Basic Principles Involved In Engineering Drawing. The Treatment Is Based On The First Angle

Projection. Salient Features: * Nomography Explained In Detail. * 555 Self-Explanatory Solved University Problems. * Step-By-Step Procedures. * Side-By-Side Simplified Drawings. * Adopts B.I.S. And I.S.O. Standards. * 1200 Questions Included For Self Test. The Book Would Serve As An Excellent Text For B.E., B.Tech., B.Sc. (Ap. Science) Degree And Diploma Students Of Engineering. Amie Students Would Also Find It Extremely Useful.

This book provides a foundation to understand the development of sustainability in civil engineering, and tools to address the three pillars of sustainability:

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economics, environment, and society. It includes case studies in the five major areas of civil engineering: environmental, structural, geotechnical, transportation, and construction management. This second edition is updated throughout and adds new chapters on construction engineering as well as an overview of the most common certification programs that revolve around environmental sustainability. Features: Updated throughout and adds two entirely new chapters Presents a review of the most common certification programs in sustainability Offers a blend of numerical and writing-based problems, as well as numerous application-based examples that utilize concepts found on the Fundamentals of Engineering (FE) exam Includes several practical case studies Offers a solution manual for instructors Fundamentals of Sustainability in Civil Engineering is intended for upper-level civil engineering sustainability courses. A unique feature is that concepts found in the Fundamentals of Engineering (FE) exam were targeted to help senior-level students refresh and prepare.

Primarily aimed to be an introductory text for the first course in surveying for civil, architecture and mining engineering students, this book, now in its second edition, is also suitable for various professional courses in surveying. Written in a simple and lucid language, this book at the outset, presents a thorough introduction to the subject. Different measurement errors with their types and nature are described along with measurement of horizontal

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distances and electronic distances measurements. This text covers in detail the topics in levelling, angles and directions and compass survey. The functions and uses of different instruments, such as theodolites, tacheometers and stadia rods are also covered in the text. Besides, the book elaborates different fields of surveying, such as plane table surveying, topographical surveying, construction surveying and underground surveys. Finally, the book includes a chapter on computer applications in surveying. **KEY FEATURES :** Includes about 400 figures to explain the fundamentals of surveying. Uses SI units throughout the book. Offers more than 170 fully-solved examples including the questions generated from premier universities. Provides a large number of problems and answers at the end of each chapter. Incorporates objective questions from AMIE exams and Indian Engineering Services exams.

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

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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)

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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

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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

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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

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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 . Chapter4.3(vii) is the study of Indoor lighting schemes .and factors affecting Indoor Lighting .

Jagranjosh's Banking & SSC e-book April 2021 eBook is a one-stop solution to help students preparing for the upcoming SSC JE & RBI Grade B 2021 Exams. All the chapters of this e-book are reader-friendly and easy to understand. Our team at Jagranjosh.com wishes all the very best to the aspirants of Banking & SSC Exams. Key Feature Banking & SSC e-book April 2021 is prepared by subject matter expert team of Jagranjosh.com, who

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