

Pune University Sybsc Electronics Question Paper

Advanced Java Programming
 Learn Raspberry Pi Programming with Python
 GRAPH THEORY
 Instrumentation Devices and Systems
 INSTRUMENTATION SYSTEMS (2 Credits) Electronics (For Computer Science)
 Algorithms and Applications
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 A Textbook of Applied Electronics
 An Introduction
 SWITCHGEAR AND PROTECTION (Elective-III)
 Digital Design
 SWITCHING THEORY AND LOGIC DESIGN
 Materials of Construction
 Electronic Devices and Circuits
 Internet of Things
 Maharashtra General Knowledge
 Benefits of Soil Conservation
 Probability and Statistics
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 Principles of Electronics
 Digital Principles and Applications
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Advanced Java Programming Nirali Prakashan

This book presents, in SI units, the various methods and concepts of surveying, laying greater emphasis on those that are commonly used. Relevant historical aspects are given. Tracing the development of the subject and the methods. The book also gives an overview of certain advanced and modern surveying techniques such as precise traversing and levelling, aerial photogrammetry, airphoto interpretation, electronic distance measurement and remote sensing.

Learn Raspberry Pi Programming with Python S. Chand Publishing

Corona virus named as COVID-19 emanated from Wuhan, China and as of today it has its footprints in more than 185 countries across the globe. There are over 3.5 million people who have been reported infected and more than 2,50,000 people who have died across the world. This has been considered one of the fastest growing influenza virus. In terms of WHO, COVID-19 is a respiratory disease and most infected people will develop mild to moderate symptoms and might recover without requiring special treatment. People who have underlying medical conditions like diabetes, cardiovascular issue, lungs infections, kidney problems etc. and those over 60 years old have a higher risk of developing severe disease and death. Common Symptoms are: · Fever · Sneezing · Tiredness · Dry Cough. Shortness of Breath Aches and Pains Sore throat Few people will report diarrhea,

nausea or a runny nose, as well. Chill Chilling fever Prevention: To prevent infection and to slow transmission, do the following: Wash your hands regularly with soap and water, or clean them with alcohol-based hand rub/ sanitizer. Maintain at least 1 meter distance between you and people coughing or sneezing. Avoid touching your face. Cover your mouth and nose when coughing or sneezing. Stay home if you feel unwell. Refrain from smoking and other activities that weaken the lungs. Practice physical distancing by avoiding unnecessary travel and staying away from large groups of people and gathering. COVID-19, has already been declared as pandemic, and is spreading rapidly taking the world by surprise, causing a great deal of uncertainty for the next phase of the disease as well as for the global economy. Epidemiologists suggest that the virus is highly transmissible and can cause nationally incapacitating epidemics once transmission within the community is established. Every Industry thus needs to chalk out strategic approach to tackle its further spread. Irrespective of the nature of the operations we are engaged in our industry, certain preventive protocol will have to put into practice. This idea is sourced from the fundamental that we belong to varied and different environmental conditions. In these circumstances, like in the war, no one can be considered above the law and yes, this formulation of understanding has always paid the results. It is more so when the survival and existence of the entire humanity is at stake. Therefore, as good netizens, we must submit ourselves to this much needed scrutiny. For our collective health assurance and preventive protocol, few examples of such preventive equipment needed to be installed at our workplaces - refer to Appendix - 1. First example (as illustration) is of a full body sanitization machine that can be installed at the main entrance of the department/ college/ institute to ensure that every visitor - existing or new, senior or junior, necessarily, has to pass through this machine. Besides, we also need to provide PPE - Personal Protection Equipment, to certain category of employees who are constantly operating in vulnerable

conditions and need extra protection from any undue exposure to harmful environment. To all such employees we need to provide personal protective gear. An example of PPE is placed at Appendix - 2, that can be procured by all departments/ colleges/ institutes. We at Savitribai Phule Pune University (SPPU) cannot operate in isolation, thus need to follow a comprehensive and well-structured preventive approach. An elaborate department/ section-wise preventive approach to be followed by our university departments and affiliated colleges/ institutes has been compiled and placed in the chapters hereafter for strict compliance by all stakeholders. Meanwhile a generic list of common points is also enumerated below for adherence:

- Every higher educational institution has to follow Social Distancing guidelines besides avoiding large gathering for next academic year
- The medical history of each and every staff member and students is required to be maintained for safety reasons and this should be done by submitting the self-disclosure on the day of their resuming the duty/ classes. Self-disclosure form placed at Annexure - 1.
- Students and staff should submit self-disclosure related to any one from their family members having been affected / treated with corona treatment.
- Sanitization and Fumigation of entire campus/ classrooms and college premises should be carried out scrupulously.
- All staff and visitors should be subjected to non-contact thermal scanner check or temperature check at the time of entry
- For initial few months colleges/ Institutes should install a gate with sanitizer spray machine at the entrance of college and each and every staff should enter through that gate.
- Use of Hand sanitizer and face masks should be made compulsory until the end of December 2020 or till further order
- Each institute should introduce and run health and hygiene awareness program and every student must undergo such program
- First aid kits in the department/ college/ institute should be fully equipped at all times including certain medicines related to flu and fever.
- Every Department/ College/ Institute should keep their Ambulance always in alert/ ready mode with its driver and assistant always available.
- Institutions should incorporate disaster mitigation and post disaster training programs primarily to NSS and NCC students.
- Departments/ Colleges/ Institutes need to be vigilant in observing and identifying any Corona like symptoms amongst their faculty and students. If found, they should be immediately reported to the respective health centres. Every challenge throws up new opportunities and it is up to the wise men how they take everything in their stride. This lockdown because of Covid-19 has also opened plethora of new windows of learning provided we are ready for the change - the change that will take us to untrodden highways. Thus, to mitigate any academic loss to students, university additionally emphasizes on the teaching fraternity to look for new horizons and devise innovative ways and means of imparting learning. Following steps therefore, are suggested for academic persuasion to teaching fraternity:

GRAPH THEORY Tata McGraw-Hill Education

Market_Desc: · Physicists and Engineers· Students in Physics and Engineering Special Features: · Covers everything from Linear Algebra, Calculus, Analysis, Probability and Statistics, to ODE, PDE, Transforms and more· Emphasizes intuition and computational abilities· Expands the material on DE and multiple integrals· Focuses on the applied side, exploring material that is relevant to physics and engineering· Explains each concept in clear, easy-to-understand steps About The Book: The book provides a comprehensive introduction to the areas of mathematical physics. It combines all the essential math concepts into one compact, clearly written reference. This book helps readers gain a solid foundation in the many areas of mathematical methods in order to achieve a basic competence in advanced physics, chemistry, and engineering.

Instrumentation Devices and Systems Tata McGraw-Hill Education

This book teaches the basic principles of digital circuits. It is appropriate for an introductory course in digital electronics for the students of: • B.Sc. (Computer Science) • B.Sc. (Electronics) • B.Sc. (Information Technology) • B.Sc. (Physics) • Bachelor of Computer Applications (BCA) • Postgraduate Diploma in Computer Applications • Master of Computer Applications (MCA) The book emphasizes the must know concepts that should be covered in an introductory course and provides an abundance of clearly explained examples, so essential for a thorough understanding of the principles involved in the analysis and design of digital computers. The book takes students step-by-step through digital theory, focusing on: » Number representation systems and codes for representing information in digital systems » Use of logic gates in building digital circuits » Basic postulates and theorems of Boolean algebra » Karnaugh map method for simplifying Boolean functions » Arithmetic circuits such as adders and subtractors » Combinational circuit building blocks such as multiplexers, decoders and encoders » Sequential circuit building blocks such as flip-flops, counters and registers » Operation of memory elements such as RAM, DRAM, magnetic disk, magnetic bubble, optical disk, etc. 1. Number Systems and Codes 2. Logic Gates and Circuits 3. Boolean Algebra 4. Combinational Logic Circuits 5. Sequential Logic Circuits 6. Counters and Shift Registers 7. MEMORY ELEMENTS Pearson Educación

For students in electronics technology at a junior college, state college, or technical institute.

INSTRUMENTATION SYSTEMS (2 Credits) Electronics (For Computer Science) PHI Learning Pvt. Ltd.

I have great pleasure to present this book on Semiconductor Devices and Basic Electronic Systems F.Y.B.Sc. Electronic Science of B.Sc (Computer Science) Paper I Semester-I, ELC-111, CBCS (June-2019-20).It is written as per the 2019-20 patterns of Choice Base Credit System (CBCS) syllabus of Savitribai Phule Pune University, Pune-411007 implemented from June-2019.The Author and Co-Author have tried there level best to simplify the difficult concept in electronic science with neat diagram and simple mathematical equation.

Algorithms and Applications McGraw-Hill College

The Use Of Digital Circuits Is Increasing In All Disciplines Of Engineering. Consequently Students Need To Have An In-Depth Knowledge On Them. Digital Circuits And Design Is A Textbook Dealing With The Basics Of Digital Technology Including The Design Asp

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/Table of Contents 1 Electronic Devices2 Operational Amplifiers and Comparators3 Logic Circuits4 Resistor-Transistor Logic and Integrated- Injunction Logic5 Diode-Transistor Logic6 Transistor-Transistor Logic7 Emitter- Coupled Logic8 MOS Gates9 Flip-Flops10 Registers and Counters11 Arithmetic Operations12 Semiconductor For Memories13 Analog Switches14 Analog-to-Digital Conversions15 Timing Circuits

A Textbook of Applied Electronics Tata McGraw-Hill Education

This introduction to computational geometry focuses on algorithms. Motivation is provided from the application areas as all techniques are related to particular applications in robotics, graphics, CAD/CAM, and geographic information systems. Modern insights in computational geometry are used to provide solutions that are both efficient and easy to understand and implement.

An Introduction McGraw-Hill College

For sophomore courses on digital design in an Electrical Engineering, Computer Engineering, or Computer Science department. & Digital Design, fourth edition is a modern update of the classic authoritative text on digital design.& This book teaches the basic concepts of digital design in a clear, accessible manner. The book presents the basic tools for the design of digital circuits and provides procedures suitable for a variety of digital applications.

SWITCHGEAR AND PROTECTION (Elective-III) Springer Science & Business Media

This text book has been prepared keeping in mind the need of subject and syllabus specified by SPPU. The First chapter describes the instrumentation system, sensors, transducers and their specifications. In Second chapter, types of sensors such as temperature sensor, optical sensor, PIR sensor, ultrasonic sensor, image sensor are discussed in detail. Types of actuators such as DC motor and stepper motor are also described in this chapter.

Digital Design Universities Press

One of the most comprehensive, clearly written books on electronic technology, Simpon's invaluable guide offers a concise and practical overview of the basic principles, theorems, circuit behavior and problem-solving procedures of this intriguing and fast-paced science. Examines a broad spectrum of topics, such as atomic structure, Kirchhoff's laws, energy, power, introductory circuit analysis techniques, Thevenin's theorem, the maximum power transfer theorem, electric circuit analysis, magnetism, resonance semiconductor diodes, electron current flow, and much more. Smoothly integrates the flow of material in a nonmathematical format without sacrificing depth of coverage or accuracy to help readers grasp more complex concepts and gain a more thorough understanding of the principles of electronics. Includes many practical applications, problems and examples emphasizing troubleshooting, design, and safety to provide a solid foundation in the field of electronics. An ideal reference source for electronic engineering technicians and those involved in the electronic technology field.

SWITCHING THEORY AND LOGIC DESIGN Apress

The book entitled, ""Electricity and Magnetism"" is written in a simple and lucid language as possible. It will be helpful for understanding of Electrostatics, Dielectrics, Magnetization, Magnetostatics and Magnetic Properties of Materials. Multiple choice questions and true and false type questions are also added which are useful for competitive exam. The content included in the section will surely increase problem solving skills.

Materials of Construction Benefits of Soil ConservationFUNDAMENTALS OF DIGITAL ELECTRONICS (2 Credits) Electronic SciencePaper-IElectronics have made tremendous revolution in last decade. The majority of this revolution is in the digital world. Students entering in the field of Electronics should have understanding of basic fundamentals of digital electronics. This text book has been prepared keeping in mind the need of subject and syllabus specified by SPPU. The First Chapter describes basics of digital electronics which includes number system, logic gates and Boolean algebra.Covid-19: The Preventive Protocol for Educational Institutions

I am glad to present the book entitled "Mobile and Wireless Communication" for Third Year (Sixth Semester) Diploma in Electronics Engineering as per SBTE's New Revised syllabus. I have observed the students facing extreme difficulties in understanding the basic principles and fundamental concepts. To meet this basic requirement of students, sincere efforts have been made to present the subject matter with frequent use of figures.

Electronic Devices and Circuits Pearson College Division

The subject matter is profusely illustrated with a number of clear and labelled diagrams. We sincerely feel that this book will fulfill the requirements of the students as well as teachers. While preparing this book several standard reference books and text books have been consulted. Emphasis has been laid on furnishing maximum information required for students in a simple and lucid language. Zoology is an interesting subject because the animal world is full of diversity, adaptations, habits and habitats and behaviour.

Internet of Things Elsevier

The basic objective of this book is to bridge the gap between the vast contents of the reference books, written by the renowned Intertiol Author and the concise requirements of Undergraduate Students. This book has been written in a comprehensive manner using Simple and Lucid language, keeping in mind students' requirements. The main emphasis has been given on exploring the basic concepts rather than merely the Information. Solved Examples and Exercises have been provided throughout the book and at the end of the Unit. Also, I have given Model Question Papers for practice at the end of book.

Maharashtra General Knowledge Apress

Practical 1 to practical 26 Practical Sketleton Paper

Benefits of Soil Conservation John Wiley & Sons

Advanced Java Programming is a textbook specially designed for undergraduate and postgraduate students of Computer Science, Information Technology, and Computer Applications (BE/BTech/BCA/ME/M.Tech/MCA). Divided into three parts, the book provides an exhaustive coverage of topics taught in advanced Java and other related subjects.

Probability and Statistics S. Chand Publishing

The syllabi for F.Y.B.Sc. Microbiology have been revised and modified so as to widen the scope of the subject to be compatible to present developments and needs of the subject. Our effort is to provide the students with the best guidelines in order to help them to achieve the expected outcomes in these changed circumstances. This book covers the entire new and revised syllabus for the first semester of F.Y.B.Sc. (Microbiology) as prescribed by SPPU.

Digital Systems PHI Learning Pvt. Ltd.

This book is based on a course Graph theory. We write this book as per the revised syllabus of F.Y. B.Sc.(Computer Science) Mathematics, revised by Savitribai Phule Pune University, Pune, implemented from June 2019. Graph theory is the most useful subject in all branches of mathematics and it is used extensively in applied mathematics and engineering. Graphs theory is the study of graphs, which are mathematical structures used to model pairwise relations between objects. It is a bridge connecting mathematics with various branches of computer science. We study how problems in almost every conceivable discipline can be solved using graph models.

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