Unisa B Tech Electrical Engineering Syllabus

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Fundamental Of Electrical Engineering And Applications Cambridge University Press

This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that have been developed and implemented. The Computing Conference 2020, which provided a venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to be included in these proceedings. Featuring state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area.

ICCWS 2020 15th International Conference on Cyber Warfare and Security Springer Nature

During recent decades we have witnessed not only the introduction of automation into the work environment but we have also seen a dramatic change in how automation has influenced the conditions of work. While some 30 years ago the addition of a computer was considered only for routine and boring tasks in support of humans, the balance has dramatically shifted to the computer being able to perform almost any task the human is willing to delegate. The very fast pace of change in processor and information technology has been the main driving force behind this development. Advances in automation and especially Artificial Intelligence (AI) have enabled the formation of a rather unique team with human and electronic members. The team is still supervised by the human with the machine as a subordinate associate or assistant, sharing responsibility, authority and autonomy over many tasks. The requirement for teaming human and machine in a highly dynamic and unpredictable task environment has led to impressive achievements in many supporting technologies. These include methods for system analysis, design and engineering and in particular for information processing, for cognitive and complex knowledge [1] engineering .

The International Guide to Undergraduate Engineering Programs in Australia & New Zealand Springer Nature

"Basic Electrical Engineering" is written exclusively for B. Tech. Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). Each of the important topics that help the student in learning the principles of Electrical Engineering more effectively have been included.

ICEL 2018 13th International Conference on e-Learning I. K. International Pvt Ltd

More than 30 leading experts from around the world provide comprehensive coverage of various branches of face image analysis, making this text a valuable asset for students, researchers, and practitioners engaged in the study, research, and development of face image analysis techniques.

Electrical Engineering Springer Nature

This book constitutes the proceedings of the First International Conference on Smart Multimedia, ICSM 2018, which was held in Toulon, France, in August 2018. The 39 papers presented were selected from about 100 submissions and are grouped in sections on social, affective and cognition analysis, person-centered smart multimedia: serving people with disabilities to the general population, haptic and robots for smart multimedia applications, MR, 3D, underwater image processing, smart signal processing meets smart sensing, visual behavior analysis: methods and applications, video analysis, learning, low-level vision, miscellaneous.

Predictive Intelligence Using Big Data and the Internet of Things CRC Press

With the aid of the fundamentals of Electrical Engineering and Applications, students may study the principles of electrical engineering with little difficulty. The whole learning experience will be improved, and students will be better able to apply the principles of electrical engineering to challenges in their respective disciplines. Both first-year electrical engineering students and non-majors taking a survey course in the field will find this book's coverage of circuit analysis, digital systems, electronics, and electromechanics accessible and engaging. Learning about and building things with electronics can be, and should be, enjoyable. This text, therefore, takes an approach that is intended to make learning about electrical engineering fundamentals fun. Fundamentals of Electrical Engineering and Applications deals with the study, design, and application of equipment, devices, and systems that use electricity, electronics, and electromagnetism. Electrical Engineering concentrates on the representation, manipulation, transmission, and reception of information by electrical means.

Advanced Multimedia and Ubiquitous Engineering IGI Global

This book showcases the state of the art in the field of sensors and microsystems, revealing the impressive potential of novel methodologies and technologies. It covers a broad range of aspects, including: bio-, physical and chemical sensors; actuators; micro- and nano-structured materials; mechanisms of interaction and signal transduction; polymers and biomaterials; sensor electronics and instrumentation; analytical microsystems, recognition systems and signal analysis; and sensor networks, as well as manufacturing technologies, environmental, food and biomedical applications. The book gathers a selection of papers presented at the 20th AISEM National Conference on Sensors and Microsystems, held in Naples, Italy in February 2019, the event brought together researchers, end users, technology teams and policy makers.

Knowledge-Based Intelligent Information and Engineering Systems Springer

Includes: comprehensive program profiles; international student admissions and fees; program recognition; support for international students.

ECCWS 2017 16th European Conference on Cyber Warfare and Security Springer Nature

Evolutionary approach to systems from the entire economy to the behaviour of single markets.

Is There an Electrical Engineer Inside You? IGI Global

This book provides a comprehensive overview of the latest developments and materials used in electrochemical energy storage and conversion devices, including lithium-ion batteries, sodium-ion batteries, zinc-ion batteries, supercapacitors and conversion materials for solar and fuel cells. Chapters introduce the technologies behind each material, in addition to the fundamental principles of the devices, and their wider impact and contribution to the field. This book will be an ideal reference for researchers and individuals working in industries based on energy storage and conversion technologies across physics, chemistry and engineering. FEATURES Edited by established authorities, with chapter contributions from subject-area specialists Provides a comprehensive review of the field Up to date with the latest developments and research Editors Dr. Mesfin A. Kebede obtained his PhD in Metallurgical Engineering from Inha University, South Korea. He is now a principal research scientist at Energy Centre of Council for Scientific and Industrial Research (CSIR), South Africa. He was previously an assistant professor in the Department of Applied Physics and Materials Science at Hawassa University, Ethiopia. His extensive research experience covers the use of electrode materials for energy storage and energy conversion. Prof. Fabian I. Ezema is a professor at the University of Nigeria, Nsukka. He obtained his PhD in Physics and Astronomy from University of Nigeria, Nsukka. His research focuses on several areas of materials science with an emphasis on energy applications, specifically electrode materials for energy conversion and storage.

Electrode Materials for Energy Storage and Conversion IGI Global

The book provides an encompassing overview of all aspects relating to the sharing economy paradigm in different fields of study, and shows the ongoing research efforts in filling previously identified gaps in understanding in this area. Control and optimization analytics for the sharing economy explores bespoke analytics, tools, and business models that can be used to help design collaborative consumption services (the shared economy). It provides case studies of collaborative consumption in the areas of energy and mobility. The contributors review successful examples of sharing systems, and explore the theory for designing effective and stable shared-economy models. They discuss recent innovations in and uses of shared economy models in niche areas, such as energy and mobility. Readers learn the scientific challenging issues associated with the realization of a sharing economy. Conceptual and practical matters are examined, and the state-of-the-art tools and techniques to address such applications are explained. The contributors also show readers how topical problems in engineering, such as energy consumption in power grids, or bike sharing in transportation networks, can be formulated and solved from a general collaborative consumption perspective. Since the book takes a mathematical perspective to the topic, researchers in business, computer science, optimization and control find it useful. Practitioners also use the book as a point of reference, as it explores and investigates the analytics behind economy sharing.

The Economic and Social Impacts of E-Commerce Springer Nature

E-Commerce has brought about many changes in organizations and has had significant impacts on the quality of life that is experienced by individuals or even indirectly as members of society. The need to have fast and efficient information on products is crucial to our socially conscious and technologically dependent society; hence, information technology has increased the intolerable burden of handling the increasing amount of information and human errors which the society is expected to contend with. The Economic and Social Impacts of E-Commerce addresses issues associated with the advent of e-commerce, and its significance within society.

Martindale-Hubbell International Law Directory RAJATH PUBLISHERS

With the recent growth of big data and the internet of things (IoT), individuals can now upload, retrieve, store, and collect massive amounts of information to help drive decisions and optimize processes. Due to this, a new age of predictive computing is taking place, and data can now be harnessed to predict unknown occurrences or probabilities based on data collected in real time. Predictive Intelligence Using Big Data and the Internet of Things highlights state-of-the-art research on predictive intelligence using big data, the IoT, and related areas to ensure quality assurance and compatible IoT systems. Featuring coverage on predictive application scenarios to discuss these breakthroughs in real-world settings and various methods, frameworks, algorithms, and security concerns for predictive intelligence, this book is ideally designed for academicians, researchers, advanced-level students, and technology developers.

BASIC ELECTRICAL ENGINEERING IGI Global

The book speaks to the need for a regulatory framework with regards to space resource utilization. In doing so, significant elements of the subject matter have been explored, taking into account the different phases of a space mission and the perspectives of the various actors and participants in the space arena. The book tackles the subject matter from a number of angles. An analysis of the current national and international governance frameworks is performed, with regards to resource extraction and utilization in space. The view of established and emerging space nations is analyzed next, specifically with extraction and utilization in mind, and in light of the new United State (US) Commercial Space Launch Competitiveness Act (CSLCA) of 2015. A brief analysis of the various budgets allocated to space exploration is given.

Smart Multimedia Springer Nature

This book constitutes the proceedings of the 16th IFIP WG 11.12 International Symposium on Human Aspects of Information Security and Assurance, HAISA 2022, held in Mytilene, Lesbos, Greece, in July 2022. The 25 papers presented in this volume were carefully reviewed and selected from 30 submissions. They are organized in the following topical sections: cyber security education and training; cyber security culture; privacy; and cyber security management.

Proceedings Engineering Education Service Center

About the Book: Electrical Engineering has been written as a core course for all engineering students viz., Electronics and Communication Engineering, Computer Engineering, Civil Engineering, Mechanical Engineering etc. Since this course will normally be offered at the first year level of engineering, the author has made modest effort to give in a concise form, various features of

Electrical Engineering using simple language, and through solved examples, avoiding the rigorous of mathematics. Salient features: Explanation of-D.C. circuit analysis and network theorems; Phenomenon of resonance; Analysis of 3-phase circuits and measurement of power in these circuits. Discusses-Steady state analysis of single phase A.C. circuits; Various electrical machines viz., A.C. machines, single phase and three phase inductions motors, and synchronous machines etc. Description of-Measuring instruments like ammeter, voltmeter, wattmeter and energy meter; Main components of power system and concept of grid; Magnetic circuits and single phase transformer. Numerous solved examples and practice problems for thorough grasp of the subject is presented and a large number of multiple choice questions with answers are also provided at the end.

Brief Guide to Reference Materials in Electrical Engineering in the Library of the University of British Columbia Springer

Artificial Intelligence will either be the best or worst thing to happen to humanity. We do not yet know which. – Stephen Hawking As AI becomes more pervasive in every aspect of human life, there is an urgent need to understand it and harness it in a way that benefits mankind. But where do we begin? Will AI Dictate the Future breaks down this complex subject by examining AI ' s impact on key sectors of our societies. Each chapter delves into one sector in turn, probing the myriad risks and opportunities brought about by AI: Healthcare Law Manufacturing Cybersecurity Mobility Financial Services Education Satellite Systems Government Written by Dr Anton Ravindran, together with chapters contributed by leading experts in their fields, this invaluable book provides a clear, comprehensive and authoritative look at how AI – managed wisely – can change the world for the better.

Nanomaterials for Energy Conversion, Biomedical and Environmental Applications S. Chand Publishing

This book presents carefully selected contributions devoted to the modern perspective of AI research and innovation. This collection covers several areas of applications and motivates new research directions. The theme across all chapters combines several domains of AI research, Computational Intelligence and Machine Intelligence including an introduction to the recent research and models. Each of the subsequent chapters reveals leading edge research and innovative solution that employ AI techniques with an applied perspective. The problems include classification of spatial images, early smoke detection in outdoor space from video images, emergent segmentation from image analysis, intensity modification in images, multi-agent modeling and analysis of stress. They all are novel pieces of work and demonstrate how AI research contributes to solutions for difficult real world problems that benefit the research community, industry and society.

Analytics for the Sharing Economy: Mathematics, Engineering and Business Perspectives Springer

Covering: Australia, Canada, New Zealand, the UK, and USA. Includes: international student admissions and fees; program recognition; support for international students.

Space Resource Utilization: A View from an Emerging Space Faring Nation Academic Conferences Limited

This book highlights a multidisciplinary system for the future while protecting our environment. Certainly, the main objective of the proposed book has addressed several issues and bringing a good platform to understanding for future developments in metal oxide nanostructures for energy conversion, biomedical, and environmental management, however, which is support/carrier for antibacterial behaviors, pathogen infections, and bioinspired materials for energy savings and environmental impacts. Appropriately, I recommend the book to undergraduates, postgraduates, and doctoral students those who are working in materials science and researchers across the world working in interdisciplinary research.