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# Unisa B Tech Electrical Engineering Syllabus

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Image Analysis and Processing – ICIAP 2022 IGI  
Global

This book will have the recent information on the developments in the emerging field of environmental-friendly coatings. Crucial aspects associated with coating research will be presented in form of the individual chapters. Close attention will be paid to include essential aspects that are necessary to understand the properties and applications of the novel materials. Different methods and techniques of synthesis and characterization will be detailed as individual chapters. It will also discuss the characterization techniques used in the area of such coatings. There will be chapters that describe the current status and future prospects. The topics will be selected so they are easy to understand and useful to new scholars as well as advanced learners. No book has been written on this subject so far.

*Applied Thermodynamics and Heat  
Transfer* Bookstand Pub

**SHORTLISTED FOR NON-FICTION  
BOOK OF THE YEAR, ABIA AWARDS  
2018** Is your daughter 14? Are you  
struggling to know what's going on inside  
her head? Are you worried? This is the book  
that can help you understand how she's  
feeling, what she's thinking and what you  
need to do to help her navigate her tricky  
teens to become a fabulous woman. **BEING  
14** gives a voice to every teen girl in  
Australia. Madonna King has interviewed  
200 14-year-old girls across the country,  
talked to successful school principals,  
psychologists, CEOs, police, guidance and  
neuroscientists to reveal the social,  
psychological and physical challenges every  
14-year-old girl is facing today. -How much  
independence do they need? -What is the

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power of a friendship group? -How do you help build self-confidence? -Why the obsession with selfies, social media and FOMO? -How are parents unknowingly making life so much harder for them?

Overwhelmingly, these young girls - on the brink of womanhood - struggle to tell their parents how they feel. That's why BEING 14 gives you the answers you are looking for.

It's your daughter, talking to you. And her hope, beyond anything, is that you will listen. 'valuable for any parents of teens or pre-teens' SUNDAY TIMES

1999 IEEE AFRICON Springer

"For all  $x$  is an introduction to sentential logic and first-order predicate logic with identity, logical systems that significantly influenced twentieth-century analytic

philosophy. After working through the material in this book, a student should be able to understand most quantified expressions that arise in their philosophical reading. This book treats symbolization, formal semantics, and proof theory for each language. The discussion of formal semantics is more direct than in many introductory texts. Although for all  $x$  does not contain proofs of soundness and completeness, it lays the groundwork for understanding why these are things that need to be proven. Throughout the book, I have tried to highlight the choices involved in developing sentential and predicate logic. Students should realize that these two are not the only possible formal languages. In translating to a formal language, we simplify

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and profit in clarity. The simplification comes at a cost, and different formal languages are suited to translating different parts of natural language. The book is designed to provide a semester's worth of material for an introductory college course. It would be possible to use the book only for sentential logic, by skipping chapters 4-5 and parts of chapter 6"--Open Textbook Library.

Image Analysis and Recognition

Springer Nature

This book constitutes the presentations made at the Advanced Research Workshop on Autonomous Robotic Systems, which was held at the University of Coimbra, Portugal, June 1997. The aim of the meeting was to bring together

leading researchers in the area of autonomous systems for mobility and manipulation, and the aim of this book is to share the presentations with the reader. The book presents the most recent developments in the field. Topics include sensors and navigation in mobile robots, robot co-operation, telerobotics, legged robots, climbing robots and applications. Existing and emerging applications of autonomous systems are described in great detail, including applications in forestry, cleaning, mining, tertiary buildings, assistance to the elderly and handicapped, and surgery. The chapters are written in a structured and advanced tutorial style by leading specialists from Europe, Australia,

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Japan and USA. The style will allow the reader to grasp the state-of-the-art and research directions in the area of autonomous systems.

**Space Resource Utilization: A View from an Emerging Space Faring Nation** BoD – Books on Demand

This book constitutes the thoroughly refereed proceedings of the 14th International Conference on Image Analysis and Recognition, ICIAR 2017, held in Montreal, QC, Canada, in July 2017. The 73 revised full papers presented were carefully reviewed and selected from 133 submissions. The papers are organized in the following topical sections: machine learning in image recognition; machine learning for medical image computing; image enhancement and reconstruction; image segmentation; motion and tracking; 3D computer vision; feature extraction; detection and classification;

biomedical image analysis; image analysis in ophthalmology; remote sensing; applications.

*Information Security in Diverse Computing Environments* Information Today, Inc.

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

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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.

**Forall X Springer**

Bearing in mind the large relative significance of problems involved in the removal of heat from the nuclear reactors and its conversion into other types of energy, the basic information

on thermodynamics and heat transfer are treated. (Author).

**Proceedings United Nations Publications**

Shows how and why different kinds of tertiary education institutions engage in e-learning.

*Enterprise Springer Nature*

This unique book presents authoritative overviews of more than 70 conceptual frameworks for understanding how people seek, manage, share, and use information in different contexts. A practical and readable reference to both well-established and newly proposed theories of information behavior, the book includes contributions from 85 scholars from 10 countries. Each theory description covers origins, propositions, methodological implications, usage, links to related conceptual frameworks, and listings of authoritative

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primary and secondary references. The introductory chapters explain key concepts, theory/method connections, and the process of theory development.

Predictive Intelligence Using Big Data and the Internet of Things Marquis Whos Who  
Information Security in Diverse Computing Environments IGI Global

**International Journal of Information and Communication Technology Education (IJICTE)** CRC Press

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.

Advances in Face Image Analysis: Techniques and Technologies OECD Publishing

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site

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(Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

*Functionalized Polymers* IGI Global

Functionalized polymers are macromolecules to which chemically bound functional groups are attached which can be used as catalysts, reagents, protective groups, etc.

Functionalized polymers have low cost, ease of processing and attractive features for functional organic molecules. Chemical reactions for the introduction of functional groups in polymers and the conversion of functional groups in polymers depend on different properties. Such properties are of great importance for functionalization reactions for possible applications of reactive polymers. This book deals with the synthesis and design of various functional polymers, the modification

of preformed polymer backbones and their various applications.

Being 14 IGI Global

*Sustainable Engineering Practice: An Introduction* provides a broad, fundamental understanding of sustainability principles and their application to engineering work. It is intended to fill a need for a primer on sustainability that can be introduced early in an engineer's career: it brings together all the basic dimensions of the history, concepts, and applications of sustainable engineering; and through a variety of examples and references, inspires and encourages engineers to pursue and integrate sustainable engineering into their work on a life-long basis. The report contains: background summary of the role and accomplishments of engineers in



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sustainable development. The complete report, Engineers and Sustainable Development, is contained on the accompanying CD ROM; summary of the major commitments made and implementation activities agreed upon at the World Summit on Sustainable Development, held in Johannesburg, South Africa, in September 2002, and the initial steps taken by the U.S. engineering community and its global partners; wide spectrum of examples, which describe how sustainability principles can and are being integrated and applied in engineering education, research will benefit from this primer on sustainable development and its concepts and applications.

**Who's Who of Southern Africa**  
Routledge

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

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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.

**Computerworld IGI Global**

Project Management for Engineering, Business and Technology is a highly regarded textbook that addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people"

aspects—project leadership, team building, conflict resolution, and stress management. The systems development cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program, or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This sixth edition features: updates throughout to cover the latest developments in project management methodologies; a new chapter on project procurement management and contracts; an expansion of case study coverage throughout, including those on the topic of sustainability and climate change, as well as cases and examples from across the globe, including India, Africa, Asia, and

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Australia; and extensive instructor support materials, including an instructor's manual, PowerPoint slides, answers to chapter review questions and a test bank of questions. Taking a technical yet accessible approach, this book is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses, as well as for practicing project managers across all industry sectors.

### **Bulk Solids Handling** Hachette

Australia

Digital Communication using MATLAB and Simulink is intended for a broad audience. For the student taking a traditional course, the text provides simulations of the MATLAB and Simulink systems, and the opportunity to go beyond the lecture or laboratory

and develop investigations and projects. For the professional, the text facilitates an expansive review of and experience with the tenets of digital communication systems.

### **Acronyms, Initialisms & Abbreviations Dictionary** Springer

"This book provides the latest empirical research and theoretical frameworks in the area of information security, presenting research on developing sufficient security measures for new environments by discussing challenges faced by researchers as well as unconventional solutions to these problems"--Provided by publisher.

*Digital Communication Systems Using MATLAB and Simulink* Marshall Cavendish International Asia Pte Ltd

More than 30 leading experts from around the world provide comprehensive coverage of

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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.

### **Autonomous Robotic Systems**

Information Security in Diverse Computing Environments

This 8-volumes set constitutes the refereed of the 25th International Conference on Pattern Recognition Workshops, ICPR 2020, held virtually in Milan, Italy and rescheduled to January 10 - 11, 2021 due to Covid-19 pandemic. The 416 full papers presented in these 8 volumes were carefully reviewed and selected from about 700 submissions. The 46 workshops cover a wide range of areas

including machine learning, pattern analysis, healthcare, human behavior, environment, surveillance, forensics and biometrics, robotics and egovision, cultural heritage and document analysis, retrieval, and women at ICPR2020.