

## Vaal University Of Technology Engineering Prospectus

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### ~~Vaal University Of Technology Engineering~~

The Vaal University of Technology wishes to thank all the stakeholders for supporting the campus over the period of 27 years of its existence and believe that the transfer is in the best interest ...

### ~~Closure and the relocation of the Vaal University of Technology (VUT) Upington Campus~~

A total of 552 students pursuing studies in chemistry are benefiting from R32 million that has been allocated by the Chemical Industries Education and Training Authority (CHIETA) to six universities ...

### ~~Varsity chemistry students benefit from R32m funding injection~~

The university sees its formation in post-apartheid South Africa as "a strong symbolic act of reconciliation and nation-building". It retains the campuses that it inherited in Potschefstroom, the Vaal ...

### ~~North West University~~

Some of the effects of a changing climate are noticeable. Some can be envisioned based on scientists' forecasts.

### ~~Picture this: Eye opening images of what climate change has done and could do to our world~~

In total 2,618 students graduated from faculties of Engineering and Technology, Applied and Computer Sciences, Human Sciences and Management Sciences. This is a celebration of the fact that VUT is ...

### ~~A bright future awaits VUT graduates~~

Picture Two: Flottman Company Inc. - FUSIONWRX Inc, a Flottman Company and part of the Flottman Company's Family of Businesses - 859.331.6636 | www.FUSIONWRX.com Picture One: Chelsea Vaal, Graduate of ...

### ~~FUSIONWRX Inc, a Flottman Company Promotes Chelsea Vaal To Senior Designer and Marketing Manager~~

It's a quieter week for ICT tenders as public sector procurement appears to experience an all-round slow down. Nevertheless, there is still much for the sector to pursue. In particular, the number ...

### ~~ICT tenders: National government comes out to play~~

The South African Broadcasting Corporation is also considering its technology, leading to six notices; while the Performing Arts Council of the Free State and Armscor and the Coega Development ...

### ~~ICT tenders: SOEs lead the way~~

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Where natural resources are shared, in addition to the states, regional and international organisations also have a role to play in steering who gets what. Baobab flowers have male and female ...

The conference proceedings of: International Conference on Industrial Electronics, Technology & Automation (IETA 05) International Conference on Telecommunications and Networking (TeNe 05) International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning (EIAE 05) include a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of: Industrial Electronics, Technology and Automation, Telecommunications, Networking, Engineering Education, Instructional Technology and e-Learning. The three conferences, (IETA 05, TENE 05 and EIAE 05) were part of the International Joint Conference on Computer, Information, and System Sciences, and Engineering (CISSE 2005). CISSE 2005, the World's first Engineering/Computing and Systems Research E-Conference was the first high-caliber Research Conference in the world to be completely conducted online in real-time via the internet. CISSE received 255 research paper submissions and the final program included 140 accepted papers, from more than 45 countries. The whole concept and format of CISSE 2005 was very exciting and ground-breaking. The powerpoint presentations, final paper manuscripts and time schedule for live presentations over the web had been available for 3 weeks prior to the start of the conference for all registrants, so they could pick and choose the presentations they want to attend and think about questions that they might want to ask. The live audio presentations were also recorded and are part of the permanent CISSE archive, which includes all power point presentations, papers and recorded presentations. All aspects of the conference were managed on-line; not only the reviewing, submissions and registration processes; but also the actual conference. Conference participants - authors, presenters and attendees - only needed an internet connection and sound available on their computers in order to be able to contribute and participate in this international ground-breaking conference. The on-line structure of this high-quality event allowed academic professionals and industry participants to contribute work and attend world-class technical presentations based on rigorously refereed submissions, live, without the need for investing significant travel funds or time out of the office. Suffice to say that CISSE received submissions from more than 50 countries, for whose researchers, this opportunity presented a much more affordable, dynamic and well-planned event to attend and submit their work to, versus a classic, on-the-ground conference. The CISSE conference audio room provided superb audio even over low speed internet connections, the ability to display PowerPoint presentations, and cross-platform compatibility (the conferencing software runs on Windows, Mac, and any other operating system that supports Java). In addition, the conferencing system allowed for an unlimited number of participants, which in turn granted CISSE the opportunity to allow all participants to attend all presentations, as opposed to limiting the number of available seats for each session. The implemented conferencing technology, starting with the submission & review system and ending with the online conferencing capability, allowed CISSE to conduct a very high quality, fulfilling event for all participants. See: www.cissee2005.org, sections: IETA, TENE, EIAE

This book reviews some of the latest developments in the field of water treatment using multi-functional chitosan-based materials. It covers the production of chitosan beads and membranes from chitosan powder, as well as modification techniques for enhancing the material for commercial and industrial purposes. The book summarizes the results of experimental adsorption/desorption studies for elucidating the underlying reaction mechanism of heavy-metal removal from wastewater, presenting an advanced overview of an array of characterization techniques such as Fourier-transform infrared spectroscopy, thermogravimetric analysis, x-ray diffraction, and scanning electron microscopy. Additionally, it features a look at the development and application of specialized engineering software and image analysis for modelling the kinetics of adsorption. This book is ideal for scientists and engineers working in the broader field of environmental materials science. It is all well suited for chemists, as well as industrial and civil engineers, interested in wastewater treatment and mitigation of water pollution

This book focuses on the electrochemical and nanostructural properties of new photoanode/electrolyte combinations used in the development of novel surface-modified nanomaterials for environmental applications. As water treatment is rapidly becoming a global challenge due to the increasing complexity and number of the various pollutants present, the book explores fundamental issues relating to environmental applications of nanomaterials. It addresses relevant topics ranging from electrochemical synthesis and characterization, to applications of photoanodes in corrosion prevention and biosensors for wastewater treatment. Featuring up-to-date experimental results on nanomaterials for detection of pharmaceuticals and heavy metals in wastewater, this contributed volume is useful to electrochemical researchers, materials scientists, and chemical and civil engineers interested in advanced photoelectrochemical research for environmental applications.

This book reports on the development of nanostructured metal-oxide-based electrode materials for use in water purification. The removal of organic pollutants and heavy metals from wastewater is a growing environmental and societal priority. This book thus focuses primarily on new techniques to modify the nanostructural properties of various solvent-electrolyte combinations to address these issues. Water treatment is becoming more and more challenging due to the ever increasing complexity of the pollutants present, requiring alternative and complementary approaches toward the removal of toxic chemicals, heavy metals and micro-organisms, to name a few. This contributed volume cuts across the fields of electrochemistry, water science, materials science, and nanotechnology, while presenting up-to-date experimental results on the properties and synthesis of metal-oxide electrode materials, as well as their application to areas such as biosensing and photochemical removal of organic wastewater pollutants. Featuring an introductory chapter on electrochemical cells, this book is well positioned to acquaint interdisciplinary researchers to the field, while providing topical coverage of the latest techniques and methodology. It is ideal for students and research professionals in water science, materials science, and chemical and civil engineering.

Exponential growth in population and improved standards of living demand increasing amount of freshwater and are putting serious strain on the quantity of naturally available freshwater worldwide. Water Management: Social and Technological Perspectives discusses developments in energy-efficient water production, management, wastewater treatment, and social and political aspects related to water management and re-use of treated water. It features a scientific and technological perspective to meeting current and future needs, discussing such technologies as membrane separation using reverse osmosis, the use of nanoparticles for adsorption of impurities from wastewater, and the use of thermal methods for desalination. The book also discusses increasing the efficiency of water usage in industrial, agricultural, and domestic applications to ensure a sustainable system of water production, usage, and recycling. With 30 chapters authored by internationally renowned experts, this work offers readers a comprehensive view of both social and technological outlooks to help solve this global issue.

Modelling as Research Methodology is written for the scientist and student researching the (expected) functioning of systems under specified conditions. As such, it represents an introduction to the use of modelling in natural, human and economical sciences. The book is divided into two sections. The first section illustrates the universal nature of modelling as aid to the researcher. In the second section, several typical examples of modelling are described.

Two large international conferences on Advances in Engineering Sciences were held in London, UK, 29 June - 1 July, 2016, under the World Congress on Engineering (WCE 2016), and San Francisco, USA, 19-21 October, 2016, under the World Congress on Engineering and Computer Science (WCECS 2016) respectively. This volume contains 42 revised and extended research articles written by prominent researchers participating in the conferences. Topics covered include electrical engineering, manufacturing engineering, industrial engineering, computer science, engineering mathematics and industrial applications. The book offers state-of-the-art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with/on engineering sciences.

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.