



Vaal University Of Technology Application For 2015

Medicine Magocha, Martha Matashu



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Digital Leadership for Sustainable Higher Education Saad, Wan Zuhainis, Alias, Nor Aziah, Chong, Chou Min, Sabri, Suriana, 2025-06-04 Higher Education management and academics are currently faced with the task of balancing a market and competition based education versus values based education as people trudge through the Anthropocene era when humans have a substantial impact on the planet The holistic and comprehensive nature of higher education that aims to instill a range of ethical moral and social values in students is paramount The graduates that enter the workforce must unfailingly become responsible members of society and inadvertently contribute to the nation's prosperity and global harmony Strong leadership and the agency to keep learning are unavoidable Furthermore the vast technological advances may drive practices that prioritize social responsibility sustainability and well being Digital Leadership for Sustainable Higher Education presents key parameters for transforming higher education in response to the significant and unforeseen changes in the educational landscape It explores the vast technological advances together with the complexities of the higher education ecosystem and proposes ways to uphold purpose driven practices Covering topics such as digital health credentialing and nurturing empathy this book is an excellent resource for educators higher education leaders technologists sustainability experts professionals researchers scholars academicians and more *University on the Border* Lis Lange, Vasu Reddy, Siseko H. Kumalo, 2021-08-27 The volume explores and thinks through the process of decolonising the South African higher education system by examining MustFall The text offers theoretical insights from a historical contemporary and multidisciplinary lens while examining the embedded meanings of the university as an institution idea and set of practices to show the shifts and changes that were inaugurated by MustFall along with the historicities that define the university both locally and globally The retro and prospective insights presented in the book surface the crisis of authority that places the university in a state of precarity which is framed in the book as the border The volume proposes the concept of the border recognising its conceptual and analytical dynamism as a generative space that can facilitate new imaginaries and articulations of this social institution the university **Modified Nanomaterials for Environmental Applications** Onoyivwe Monday Ama, Suprakas Sinha Ray, Peter Ogbemudia Osifo, 2021-11-16 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

Corporate governance practices promoting the sustainability of small, medium and microenterprises in South Africa Medicine Magocha, Martha Matashu, 2025-02-21 Corporate governance practices promoting the sustainability of small medium and microenterprises in South Africa critically examines the intersection of corporate governance and the sustainability of small enterprises Addressing a significant gap in the literature this scholarly work explores whether and how corporate governance frameworks enhance the long term viability of small medium and microenterprises SMMEs Through rigorous analysis each chapter contributes unique insights to the ongoing discourse offering scholars a comprehensive understanding of governance mechanisms that foster resilience and growth in the SMME sector

Enhanced Chitosan Material for Water Treatment Ephraim Igberase, Peter Ogbemudia Osifo, Tumisang Seodigeng, Ikenna Emeji, 2021-04-29 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

Additive Manufacturing: Materials, Processes, Quantifications and Applications Jing Zhang, Yeon-Gil Jung, 2018-05-17 Additive Manufacturing Materials Processes Quantifications and Applications is designed to explain the engineering aspects and physical principles of available AM technologies and their most relevant applications It begins with a review of the recent developments in this technology and then progresses to a discussion of the criteria needed to successfully select an AM technology for the embodiment of a particular design discussing material compatibility interfaces issues and strength requirements The book concludes with a review of the applications in various industries including bio energy aerospace and electronics This book will be a must read for those interested in a practical comprehensive introduction to additive manufacturing an area with tremendous potential for producing high value complex individually customized parts As 3D printing technology advances both in hardware and software together with reduced materials cost and complexity of creating 3D printed items these applications are quickly expanding into the mass market Includes a discussion of the historical development and physical principles of current AM technologies Exposes readers to the engineering principles for evaluating and quantifying AM technologies Explores the uses of Additive Manufacturing in various industries most notably aerospace

medical energy and electronics

Research Methods: Concepts, Methodologies, Tools, and Applications

Management Association, Information Resources, 2015-01-31 Across a variety of disciplines data and statistics form the backbone of knowledge To ensure the reliability and validity of data appropriate measures must be taken in conducting studies and reporting findings Research Methods Concepts Methodologies Tools and Applications compiles chapters on key considerations in the management development and distribution of data With its focus on both fundamental concepts and advanced topics this multi volume reference work will be a valuable addition to researchers scholars and students of science mathematics and engineering

Africa and Globalization Kelebogile T. Setiloane, Abdul Karim Bangura, 2020-10-24 This edited volume examines the challenges of globalization in light of the need to revisit and reconceptualize the notion of Pan Africanism The first part of the book examines globalization and Africa's socioeconomic and political development in this century by using the Diopian Pluridisciplinary Methodology This approach is imperative because the challenges faced by Africa vis vis globalization and socioeconomic development are so multiplexed that no single disciplinary approach can adequately analyze them and yield substantive policy recommendations The chapters in the second part analyze the imperatives for Africa's global knowledge production development and economic transformation in the face of the pressures of globalization Part two demonstrates an urgent need for Africa's significant participation in the global knowledge economy in order to meet the continent's modern transformation and development aspirations The final part examines lessons from old and new Pan Africanism and how they can be utilized to deal with the challenges emanating from the forces of modern globalization With its multidisciplinary approach to a wide range of pressing modern issues for the African content this book is essential reading for scholars across the social sciences interested in where Africa is now and where it should go in this increasingly globalized world

Deanship in the Global South Oliver J.J. Seale, 2021-02-08 The university today is a postmodern neo liberal competitive boundary less knowledge conglomerate a far cry from its historical traditional classical and collegial roots There is a body of literature on deanship that points to its evolving nature in the contemporary academe characterised by complexity and change Balancing academic demands simultaneously with the requirements for effective performance leadership and management lies at the heart of this very challenging bridging role nowadays Deans are generally former academics emerging from a traditional collegial space and often catapulted into the relatively unknown domain of executive management with its related problems Deans nowadays are required to be more than collegial intellectual leaders They are also meant to be fiscal and human resource experts fundraisers politicians and diplomats Deanship in the Global South Bridging Troubled Waters is about the deans lived reality as they try to balance the demands of both the academe from which they emerge and the administration to whom they now need to account Their lack of preparation and inadequate support points to the need for a more strategic integrated approach to leadership development within their critical bridging roles between the academe and administration

Student Movements in Late Neoliberalism

Lorenzo Cini, Donatella della Porta, César Guzmán-Concha, 2021-08-22 This book inquires into the global wave of student mobilizations that have arisen in the aftermath of the economic crisis of 2008 accounting for their historical and sociological significance More specifically its eleven chapters explore the role of students as political actors their ability to build effective organizations to make political alliances with other actors and to win public consensus as well as their impact on cultural political and policy outcomes To do so the volume examines case studies in England Chile South Africa Quebec and Hong Kong covering Europe Africa Asia and North and Latin America Grouped into two major sections the collection covers the organizational structures of student movements and their alliances and outcomes Ultimately this volume examines the understudied political aspects of student unrest exploring how student mobilizations driven by indebtedness precariousness the corporatization of the university and other issues correspond to larger processes of change with wider implications in society

Quality Management Implementation in Higher Education: Practices, Models, and Case Studies Sony, Michael, Karingada, Kochu Therisa, Baporikar, Neeta, 2019-08-02 Although initially utilized in business and industrial environments quality management systems can be adapted into higher education to assess and improve an institution's standards These strategies are now playing a vital role in educational areas such as teaching learning and institutional level practices However quality management tools and models must be adapted to fit with the culture of higher education *Quality Management Implementation in Higher Education Practices Models and Case Studies* is a pivotal reference source that explores the challenges and solutions of designing quality management models in the current educational culture Featuring research on topics such as Lean Six Sigma distance education and student supervision this book is ideally designed for school board members administrators deans policymakers stakeholders professors graduate students education professionals and researchers seeking current research on the applications and success factors of quality management systems in various facets of higher education

Serving Higher Purposes Ihron Rensburg, 2020-11-05 Universities of the 21st century and beyond must be about teaching learning research excellence creativity and innovation as much as they must be about enabling the destiny of students communities and nations to realize their potential UJ succeeded in her vision and responsibilities to transform the divisions prejudices and limitations that often restrain the advancement of society The story of UJ's transition to an inclusive diverse dynamic bold and purposeful institution of learning demands to be read by everyone South African African and beyond It is a story of how to be an object rather than the subject of history while dynamically shaping our shared futures laying a solid foundation for future generations to be advocates and architects for social change and cohesion It is a story of courageous and visionary leadership The book offers our nation profound lessons in leadership that should enrich all our efforts to transform institutions in a sustainable way to play a meaningful role in building ONE NATION DR WENDY LUHABE Economic Activist Social Entrepreneur First Chancellor of the University of Johannesburg

Studying Teaching and Teacher Education Cheryl J. Craig, Juanjo Mena, Ruth G. Kane, 2023-08-10 The ISATT 40th

Anniversary Yearbook presented over three volumes celebrates the contributions of ISATT members over time and offers current scholarly research to inform current and future teacher education and teaching

Quantitative Genetics, Genomics and Plant Breeding, 2nd Edition Manjit S. Kang, 2020-04-01 This book presents state of the art authoritative chapters on contemporary issues in the broad areas of quantitative genetics genomics and plant breeding Section 1 Chapters 2 to 12 emphasizes the application of genomics and genome and epigenome editing techniques in plant breeding bioinformatics quantitative trait loci mapping and the latest approaches of examining and exploiting genotype environment interactions Section 2 Chapters 13 to 20 represents the intersection of breeding genetics and genomics This section describes the use of cutting edge molecular breeding and quantitative genetics techniques in wheat rice maize root and tuber crops and pearl millet Overall the book focuses on using genomic information to help evaluate traits that can combat biotic abiotic stresses genome wide association mapping high throughput genotyping phenotyping biofortification use of big data orphan crops and gene editing techniques The examples featured are taken from across crop science research and cover a wide geographical base

Utilisation of South African Research on Higher Education Jan Botha ,Gabriele Vilyte ,2021-10-26 The relationship between research on the one hand and policy practice on the other hand is complicated and collaboration between scholars in research on higher education RHE and institutional research IR practitioners is often lacking This book marks a collaborative effort of a diverse range of South African RHE and IR scholars and asks the overarching questions What do we know about the utilisation of South African research on higher education SARHE and its subset of research known as Institutional Research How and by whom is this research used The book begins by looking at the historical underpinnings of SARHE and delineating the shape and size of this body of research This is followed by a series of case studies on South African Higher Education institutions and governmental bodies investigating how when and by whom are research on higher education and institutional research used in the decision making of these organisations This book is the first of its kind in South Africa and sets out to lay the groundwork for further research into the use uptake and utilisation of RHE and IR in this country

Corrupted Jonathan D Jansen, 2023-02 Through investigatory reports and interviews Jonathan Jansen reveals the structural conditions for chronic dysfunction in a sample of South African universities He reveals the political economy at work and the intense competition for resources on campuses He also provides interventions for these fragile institutions Why do some universities seem to be in a constant state of turmoil and dysfunction Jonathan Jansen explores the root causes of chronic instability in a sample of South African universities Through scrutiny of investigatory reports and interviews with more than 100 university managers and government officials Jansen finds that at the heart of the dysfunction in universities is an intense and sometimes deadly competition for resources especially on campuses located in impoverished communities It is not the lack of institutional resources but their concentration in a university that draws a mix of corrupt actors from local politicians and taxi operators to members of council and management into a never ending run on the material such as money

for infrastructure and symbolic namely graduation certificates for sale assets of these institutions Jansen argues that the problem won't be solved through investments in capacity building alone because the combination of institutional capacity and institutional integrity contributes to serial instability in universities Jansen makes an important intervention to understanding the root causes and offers interventions to produce stabilities such as the depoliticisation of university councils and appointing academics of integrity and capacity in the management and leadership of these fragile institutions This groundbreaking and long overdue study will offer a promising way forward for universities to better serve their communities and the country more broadly

Microbial Biotechnology: Integrated Microbial Engineering for B3 - Bioenergy, Bioremediation, and Bioproducts Maulin P. Shah, Kiran Bala, 2025-05-15 This book highlights the latest advancements in microbial biotechnology and its crucial role in promoting sustainable development across three key areas: bioenergy, bioremediation, and bioproducts. It emphasizes the potential of microbes as renewable sustainable resources capable of generating high value products and acting as efficient alternatives to conventional methods. Key topics included: algal, bacterial, and fungal biotechnology focusing on producing biomass and valuable metabolites through CO₂ sequestration; concurrent bioremediation, resource recovery, and environmental sustainability. This book presents cutting edge information on how integrated microbial engineering can valorize waste while sustainably generating essential resources. Additionally, it explores how microbes can help address critical challenges such as resource depletion and pollution management, offering solutions for a more sustainable future. Explores cutting edge technologies in microbial biotechnology including the production of high value products using microbes such as bacteria, fungi, and algae. Elucidates strategies like mycoremediation, microbial degradation, and integrated CO₂ sequestration with bioremediation to address pressing environmental challenges. Understanding the potential of algae and purple bacteria in waste valorization and circular economy models including biodiesel production and wastewater treatment. Provides comprehensive information on the emerging therapeutic possibilities of microbial systems and their role in disease control. Examines the role of microbes in enhancing plant growth as biofertilizers contributing to sustainable agricultural practices and improved regional water quality through microbial bioremediation.

Energy Technology 2018 Ziqi Sun, Cong Wang, Donna Post Guillen, Neale R. Neelameggham, Lei Zhang, John A. Howarter, Tao Wang, Elsa Olivetti, Mingming Zhang, Dirk Verhulst, Xiaofei Guan, Allie Anderson, Shadia Ikhmayies, York R. Smith, Amit Pandey, Sarma Pisupati, Huimin Lu, 2018-01-30 This collection focuses on energy efficient technologies including innovative ore beneficiation, smelting technologies, recycling, and waste heat recovery. The volume also covers various technological aspects of sustainable energy ecosystems, processes that improve energy efficiency, reduce thermal emissions, and reduce carbon dioxide and other greenhouse emissions. Papers addressing renewable energy resources for metals and materials production, waste heat recovery, and other industrial energy efficient technologies, new concepts or devices for energy generation and conversion, energy efficiency improvement in process.

engineering sustainability and life cycle assessment of energy systems as well as the thermodynamics and modeling for sustainable metallurgical processes are included This volume also includes topics on CO2 sequestration and reduction in greenhouse gas emissions from process engineering sustainable technologies in extractive metallurgy as well as the materials processing and manufacturing industries with reduced energy consumption and CO2 emission Contributions from all areas of non nuclear and non traditional energy sources such as solar wind and biomass are also included in this volume Papers from the following symposia are presented in the book Energy Technologies and CO2 ManagementAdvanced Materials for Energy Conversion and Storage Deriving Value from Challenging Waste Streams Recycling and Sustainability Joint SessionSolar Cell SiliconStored Renewable Energy in Coal Proceedings of IAC 2018 in Vienna Group of Authors,2018-07-02 International Academic Conferences Teaching Learning and E learning IAC TLEI 2018 and Management Economics and Marketing IAC MEM 2018 and Engineering Transport IT and Artificial Intelligence IAC ETITAI 2018

Accessibility of Digital Higher Education in the Global South Mashau, Pfano, Farisani, Tshililo Ruddy, 2023-12-01
Accessibility of Digital Higher Education in the Global South authored by Pfano Mashau and Tshililo Farisani from the University of KwaZulu Natal South Africa is an academic book that examines the impact of the COVID 19 pandemic on higher education in Africa The book aims to provide a comprehensive analysis of the sustainability of the new normal approaches in African universities and institutions of learning as well as government responses to teaching and learning processes during and post pandemic The sudden outbreak of COVID 19 triggered demands for informal comfortable and self designed spaces that go beyond conventional formal classrooms where students can take initiative and demonstrate independence in learning However access to digitalized teaching methods remains problematic due to the digital divide among learners and the rural urban dichotomy The book invites researchers academics and scholars in the Global South to contribute to the narrative to document successes in and improve the higher education sector post pandemic The book covers a range of themes including the sustainability of digitalized teaching approaches integrative and interactive teaching and learning theories and practices government responses to teaching and learning processes comparative analysis of conventional and digitalized teaching and learning approaches and equality diversity and participation in digitalized teaching and learning platforms among others

The Enigmatic Realm of **Vaal University Of Technology Application For 2015**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Vaal University Of Technology Application For 2015** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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Vaal University Of Technology Application For 2015 Introduction

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