



VAAAL UNIVERSITY OF TECHNOLOGY

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Vaal University Application Form 2015

**Saad, Wan Zuhainis, Alias, Nor
Aziah, Chong, Chou Min, Sabri, Suriana**

Vaal University Application Form 2015:

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.

Paper-based Diagnostics Kevin J. Land, 2018-12-11 This book explores the status of paper-based diagnostic solutions or Microfluidics 2.0. The contributors explore how paper-based tests can be widely distributed and utilized by semi-skilled personnel, how close to commercial applications the technology has become, and what is still required to make paper-based diagnostics the game changer it can be. The technology is examined through the lens of the World Health Organization's ASSURED criteria for low resource countries: Affordable, Sensitive, Specific, User friendly, Rapid, and robust, Equipment free, and Deliverable to end users. Its applications have to include health technology, environmental technology, food safety, and more. This book is appropriate for researchers in these areas as well as those interested in microfluidics and includes chapters dedicated to principles such as theory of flow and surface treatments, components such as biomarkers and detection, and current methods of manufacturing. Discusses how paper-based diagnostics can be used in developing countries by comparing current diagnostic tests with the World Health Organization's ASSURED criteria. Examines how paper-based diagnostics could be integrated with other technologies such as printed electronics and the Internet of Things. Outlines how semi-skilled personnel across a variety of fields can implement paper-based diagnostics.

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

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

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

Public Intellectuals in South Africa Chris Broodryk, 2021-07-01 This edited collection gives voice to neglected public intellectuals in the arts humanities and journalism in South Africa who gave voice and presence to those who have been marginalized and silenced in South African history Edward Said described a public intellectual as someone who uses accessible language to address a designated public on matters of social and political

significance The essays in *Public Intellectuals in South Africa* apply this interpretive prism and activist principle to a South African context and tell the stories of well known figures as well as some that have been mostly forgotten They include Magesa Fuze John Dube Aggrey Klaaste Mewa Ramgobin and Koos Roets alongside marginalized figures such as Elijah Makiwane Mandisi Sindo William Pretorius and Dr Thomas Duncan Greenlees The essays capture the thoughts and opinions of these historical figures who the contributors argue are public intellectuals who spoke out against the corruption of power promoted a progressive politics that challenged the colonial project and its legacies and encouraged a sustained dissent of the political status quo Offering fascinating accounts of the life and work of these writers critics and activists across a range of historical contexts and disciplines from journalism and arts criticism to history and politics it enriches the historical record of South African public intellectual life This volume makes a significant contribution to ongoing debates about the value of research in the arts and humanities and what constitutes public intellectualism in South Africa

Fees Must Fall Susan Booysen, 2016-10-01 This book explores the student discontent a year after the start of the 2015 South African FeesMustFall revolt FeesMustFall the student revolt that began in October 2015 was an uprising against lack of access to and financial exclusion from higher education in South Africa More broadly it radically questioned the socio political dispensation resulting from the 1994 social pact between big business the ruling elite and the liberation movement The 2015 revolt links to national and international youth struggles of the recent past and is informed by black consciousness politics and social movements of the international left Yet its objectives are more complex than those of earlier struggles The student movement has challenged the hierarchical top down leadership system of university management and its double speak of professing to act in workers and students interests yet entrenching a regressive system for control and governance University managements while on one level amenable to change have also co opted students into their ranks to create co responsibility for the highly bureaucratised university financial aid that stands in the way of their social revolution This book maps the contours of student discontent a year after the start of the FeesMustFall revolt Student voices dissect colonialism improper compromises by the founders of democratic South Africa feminism worker rights and meaningful education In depth assessments by prominent scholars reflect on the complexities of student activism its impact on national and university governance and offer provocative analyses of the power of the revolt

Business Research Pieter W. Buys, Merwe Oberholzer, 2023-03-14 This book focuses on research methodologies that apply to business research particularly for researchers and managers embarking thereon to support managerial decision making in the industry In doing so the book's objective is to guide business researchers in identifying defining and applying rigorous academic methodologies that will enable them to formulate design and execute effective research that answers their specific management problems Such guidance can empower organizational managers to understand that business research can contribute to practical solutions to actual problems experienced in the industry In addition by emphasizing the integrative nature between 1 academic research and 2

experienced industry problems it becomes possible to foster an awareness of such research's potential impact on organizational performance management sustainability and resilience. With that attention is given to narrowing the gap between theory and practice which requires that fundamentals of scientific research be adhered to while maintaining the delicate balance between a practice friendly guide to pragmatically sound and academically rigorous business research.

Sustainable Development Goals for Society Vol. 1 Godwell Nhamo, Muchaiteyi Togo, Kaitano Dube, 2021-06-16. Written by 43 authors from Africa, Europe and Latin America, this book presents 19 topics addressing poverty in the context of Sustainable Development Goals (SDGs), leadership in implementing SDGs, and SDGs in service delivery and local government. As the world has gone past five years of implementing the 2030 Agenda for Sustainable Development and the intertwined 17 SDGs, new opportunities in research continue to open up. Hence, documenting some of the initiatives put in place around the world regarding the implementation of the SDGs is one of the aims of this publication. With 10 years remaining, the book further enhances the desire to scale up SDGs implementation. The selection of case studies from the selected regions also provides a balance in terms of how the SDGs are being rolled out for economic growth, environmental stewardship, and social protection. The ambition remains even with the challenge brought by the COVID-19 pandemic that preoccupied the whole of 2020 spilling over to 2021. There is no doubt that resources have been diverted, but the world must stay on the course to 2030 and beyond. Therefore, the book is relevant for several stakeholders including academics, development partners, government officials, and other individuals that are involved in making sure no one is left behind in the lead to 2030.

Bioplastics for Sustainability Ajay Kumar Mishra, Chaudhery Mustansar Hussain, 2024-02-02. *Bioplastics for Sustainability: Manufacture, Technologies, and Environment* offers an innovative approach to bioplastics, integrating state-of-the-art materials and technologies with detailed analysis of lifecycle, recycling, circularity, and environmental impact of bioplastics, and enabling circular utilization and successful scale-up of bioplastics. The book begins by introducing the fundamentals of bioplastics, including biodegradable, compostable, and oxodegradable materials, and discusses the various factors involved in encouraging commercial uptake of these materials. The second part of the book highlights cutting-edge approaches to the production of bioplastics, covering novel sources such as microalgae and organic waste, and solutions for industrial-scale manufacturing. Other sections cover the environmental impact of bioplastics and routes to environmentally friendly usage and more. This is a valuable resource for researchers and advanced students across polymer science, sustainable materials, plastics engineering, materials science, chemistry, environmental science, and engineering. In an industrial setting, this book supports engineers, scientists, and R&D professionals with an interest in sustainable manufacture and application of bioplastics across a range of products, parts, and industries. Presents the latest advances in novel materials and manufacture techniques for bioplastics. Focuses on sustainable use of bioplastics, assessing biodegradability, life cycle, recycling, waste, and environmental impact. Addresses other key considerations such as industrial scale-up, commercialization, policies, and regulation. **Production**

Management and Process Control Beata Mrugalska, 2023-07-19 Proceedings of the 14th International Conference on Applied Human Factors and Ergonomics AHFE 2023 July 20-24 2023 San Francisco USA ICAR 2015 - ABSTRACTS Andra PANAIT, 2015-03-26 International Conference on Architectural Research ICAR 2015 RESEARCH THROUGH ARCHITECTURE ISSN 2393 4433 ISSN L 2393 4433 Descrierea CIP a Bibliotecii Naționale a României Research through architecture ed conferențiar dr arh Andra Panait București Editura Universitară Ion Mincu 2015 International Conference on Architectural Research ICAR 2015 ISSN 2393 4433 ISSN L 2393 4433 ISBN 978 606 638 112 3 I Panait Andra ed 72 Graphic design Andra Panait We acknowledge the help in preparing this volume to the following people: assoc prof Daniel Comănaș Arch PhD assoc prof Elena Codina Duoiu arch PhD assoc prof Francoise Pamfil arch PhD lecturer Marina Mihail Arch PhD assist Daniel ARMENCIU Arch PhD assist Oana DIACONESCU Arch PhD assist Mihaela ZAMFIR Arch PhD assist Raluca BORO Arch PhD student Ion Mincu Publishing House Bucharest Introduction Under the title theme Research through Architecture ICAR 2015 proposes a debate of the subject defining some new principles of nowadays architectural design In the XXI st century in searching of a style after Postmodernism it is considered that new architecture based on algorithms and parameters may offer new senses of space continuity and legibility In opposite the contextualist and phenomenologist movements consider this approach as a formal and fragile tendency culturally unsustained and which won't prove its consistence in time as utopist and futurist did Topics like new avant garde movement stylistic searching anachronistically architecture space continuities and correspondences lived architecture or experimental manifesto projects the evolving of geometries urban continuities or classical defragmentation functional zoning social impact scenarios space formalization aesthetic and symbolic design values authentically or new built archaeology sustainable design etc will be presented and debated under three main sections Traditional versus Computational Innovation and Experiment Archive Utopia Events Built Unbuilt Assoc Prof Beatrice Gabriela J GER Arch PhD UAUIM Bucharest Romania COMMITTEES General Chair Assoc Prof Beatrice Gabriela J GER Arch PhD UAUIM Bucharest Romania Local arrange chair Assoc Prof Daniel COMĂNAȘ Arch PhD UAUIM Bucharest Romania Visual Identity Publications Coordinator Assoc Prof Andra PANAIT Arch PhD UAUIM Bucharest Romania SECTIONS 1 Traditional versus Computational Chair Assoc Prof Elena Codina DUOIU Arch PhD UAUIM Bucharest Assistant chair Assist Prof Oana DIACONESCU Arch PhD UAUIM Bucharest 2 Innovation and Experiment Chair Assoc Prof Francoise PAMFIL Arch PhD UAUIM Bucharest Assistant chair Lecturer Marina MIHAIL Arch PhD UAUIM Bucharest 3 Archive Utopia Events Built Unbuilt Chair Assoc Prof Daniel COMĂNAȘ Arch PhD UAUIM Bucharest Assistant chair Assist Prof Mihaela ZAMFIR Arch PhD UAUIM Bucharest CONFERENCE SECRETARIAT Assist Prof Daniel ARMENCIU Arch PhD UAUIM Bucharest Assist Prof Raluca BORO Arch PhD student UAUIM Bucharest SCIENTIFIC COMMITTEE Prof Byeong Joon KANG Arch PhD INJE University Gimhae South Korea Assoc Prof João MENEZES DE SEQUEIRA Arch Head of Architectural Department Ulusofona Lisbon Portugal Prof Antonino SAGGIO Arch PhD Sapienza University Rome Italy Assoc Prof Maria VOYATZAKI

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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

Plant Genetic Resources, Inventory, Collection and Conservation Siva Ramamoorthy, Inocencio Jr. Buot, Rajasekaran Chandrasekaran, 2022-06-22 This edited book deals with plant genetic resources and their status availability and ecological niche in natural habitat Usage and conservation practices followed by various tribal communities and their rationale are also discussed in the book The book explores application of biological tools to conserve plant species and optimization protocols for conservation and elicitation of secondary metabolites and other value addition products The book is organized into sub themes covering i Ecological status of plant genetic resources ii Traditional ethnobotanical knowledge and conservation practices iii Ex situ conservation practices and bioprospecting Globally plant genetic resources are deeply rooted in culture and economy Since the early 1990s the changing socio economic situation has increasingly put pressure on plant genetic resources in some cases leading to a severe loss of their diversity For this reason most vulnerable areas at risk of genetic erosion have been demarcated and protected by forest laws and regulations Therefore this book brings to light the opinions of leading experts in the area of ecology conservation biodiversity ethnobotany and bioprospecting of plant genetic resources The book is for use by graduate and advanced undergraduate students and researchers in plant physiology molecular biology biochemistry and agriculture Additionally it is extremely useful as a general reference on conservation of flora and large scale cultivation

Sustainable Development Goals for Society Vol. 2 Godwell Nhamo, David Chikodzi, Kaitano Dube, 2021-06-26 This book profiles various cases that are emerging in addressing global challenges in the context of SDGs for society in the era of climate change and covers case studies of projects being undertaken to tackle biodiversity food security climate change energy and water security The book is written by 37 authors and will appeal to various stakeholders including academics working within the identified thematic areas policy planners development agencies governments and United Nations agencies The adoption of the Sustainable Development Goals SDGs in 2015 ushered a new era in the global development agenda as the world transitioned from the Millennium Development Goals MDGs The new era of SDGs that are all inclusive unlike the MDGs with the focus now being on ensuring human success that is predicated on environmental protection The year 2020 marked five years post the adoption of the SDGs with increased calls for stock taking of progress made amid strong calls for a decade of action to accelerate the delivery of the SDGs by 2030 These calls have been louder now given the impact of the COVID 19 pandemic which reset the global economy and increased intensity of extreme weather events across the world Since climate change has emerged as one of the biggest threats to the achievement of the SDGs there has been growing concerns on its impact on biodiversity loss and the extinction of some species There are also concerns regarding increased food insecurity at the

household level in some parts of the world particularly in Asia and Africa With the demand for climate change action on the increase there have also been growing calls for the big carbon emitters to drastically cut their emissions and invest in clean energy to save the planet by following development pathways making emissions stay under the 1.5°C increase in temperature

Redefining Education and Development Kaitano Dube, 2024-10-18 The book aligns with the United Nations

Sustainable Development Goals (SDGs) particularly Goal 4 which focuses on quality education It explores the evolving role of education as a critical driver for achieving all 17 SDGs by providing a platform for discussing innovative educational models and theories that foster sustainable development The book takes an interdisciplinary approach merging educational theory, developmental practice and human psychology to address complex global challenges hindering sustainable development The book includes case studies and empirical research such as exploring student entrepreneurship in the agricultural sector and the factors bridging the gap between entrepreneurial intention and venture creation These examples provide readers with practical applications of theoretical concepts and demonstrate the real world impact of educational innovations which is at the core of education delivery for all and how education touches on other areas of the SDGs The book offers valuable insights for policymakers, educators and development practitioners by presenting research and theory based analyses It suggests ways to improve the academic environment to foster entrepreneurship and innovation which are key to economic development and job creation especially in regions with high youth unemployment rates The content suggests educational reforms that are responsive to the changing societal and economic landscapes The book's blend of theory and practice targets a broad audience including academic scholars, students, development agencies, non-governmental organisations and policymakers It seeks to engage these diverse readers in a conversation about the future of education and its role in achieving sustainable development In summary the book seeks to provide a comprehensive exploration of the nexus between education, development and human needs in the context of the SDGs offering innovative perspectives and practical solutions to equip readers to contribute to sustainable global development

Sustainability and the Future of Work and Entrepreneurship for the Underserved Rolle, JoAnn Denise, Crump, Micah, 2022-06-24 Disparity in the workplace has been exacerbated in recent years as society faces a number of challenges in promoting inclusion and equality across fields To ensure appropriate steps are taken to move in the direction of a diverse and equitable future for the workforce further study and consideration on the key challenges, opportunities and strategies for advancing business policy to provide for the underserved is required *Sustainability and the Future of Work and Entrepreneurship for the Underserved* highlights marginalized labor and entrepreneurial market segments and reviews strategies used to prepare for technological change globally The book also provides a series of recommendations to assist in growing and sustaining a more inclusive global society Covering a range of topics such as disparities, class challenges and entrepreneurs this reference work is crucial for policymakers, business owners, managers, researchers, academicians, scholars, instructors and students

Tourism and

Hospitality for Sustainable Development Emmanuel Ndhlovu, Kaitano Dube, Tawanda Makuyana, 2024-09-12 The travel and hospitality industry in the 21st century cannot be conceived planned advertised run or researched without the use of digital technology and innovation Sustainable development in this sector cannot be achieved without considering the Fourth Industrial Revolution The use of technology not only enhances the industry's profitability but also helps it to respond effectively to pressing global sustainability issues such as pandemics climate change energy crises workforce shortages and hyperinflation Furthermore technology allows the sector to fully evaluate its current and future economic social and environmental impacts addressing the needs of tourists businesses the environment and destinations However implementing technology is not a simple process and involves various opportunities costs and challenges that differ depending on the geopolitical and socio economic context With the drive towards disability inclusion digitalisation technological innovations and inventions can play a significant role in universal design and reasonable accommodation for older people and populations with disabilities in the Global North and South such forms one of the key pillars of accessible tourism and hospitality In the context of the above and in response to the thoughtful need for new and sustained study of the developments interrelationships potentialities of the topic and synergies this edited book explores the trends opportunities challenges and complexities of digitalisation and technology integration in the tourism and hospitality industry as well as strategic shifts that will contribute to emerging research streams The book comprises contributions that generate theoretical insights empirical findings and evidence based recommendations by focusing on emerging and forecasted technologies used in the tourism and hospitality industry such as blockchains robots Artificial Intelligence Virtual Reality big data and analytics The aim is to provide a better understanding of how disruptive technologies and digitalisation are currently being utilised and how they currently and potentially influence various stakeholder groups as well as their future possibilities and impossibilities The third volume in a three volume set primarily covers how these new technologies impact consumers and employees of tourism related services

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

Advanced Functional Materials and Methods for Photodegradation of Toxic Pollutants Ajay Kumar Mishra, Pardeep Singh, Pankaj Raizada, S. Vadivel, Rangabhashiyam Selvasembian, 2023-09-20 Advanced Functional Materials and Methods for Photodegradation of Toxic Pollutants addresses the potential role of visible active photocatalytic methods for the removal of various emerging and persistent organic pollutants POPs Describing the classification sources and potential risks of emerging organics in water bodies and the environment the book covers the different synthesis methods of visible active structured photocatalysts and structure related properties to their applications in photocatalytic processes for the removal of antibiotics pharma and heavy metal pollutants This book provides an invaluable reference to academics

researchers and technicians in chemical engineering chemistry and environmental science In addition the mechanistic insights associated with the interaction of advanced functional materials and water pollutants along with the possible reaction pathway occurring during the visible light induced photocatalytic processes together with toxicity are discussed in detail along with the reutilization of catalysts supporting the inherent reaction conditions performed with natural conditions Covers the recent progress in nano photocatalytic materials Explores the mechanism of photocatalytic degradation of pollutants Includes the controlled synthesis of nanostructured photocatalysts and their modifications for targeted pollutants

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