



JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

COURSE OUTLINE

COURSE CODE: BCT 2307

COURSE TITLE: PARALLEL AND DISTRIBUTED SYSTEMS

GROUP: BCT YEAR III SEM I

LECTURER

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COURSE OBJECTIVE

This course unit is meant to equip students with knowledge and skills on the principles, techniques, and practices relevant to the design and implementation of functional, usable, and high-performance distributed systems.

LEARNING OUTCOMES

By the end of the course students should be able to:

- i. Explain the range of requirements that modern parallel/distributed systems have to address.
- ii. Articulate design tradeoffs inherent in large-scale parallel and distributed system design.
- iii. Justify the presence of concurrency within the framework of a parallel and distributed system.
- iv. Understand the difference between various parallel/distributed systems paradigms: Cluster Computing, Grid Computing, Supercomputing, Cloud Computing, and Peer-to-Peer Computing.
- v. Understand the different programming paradigms of parallel and distributed systems, high-performance computing, high-throughput computing, and many-task computing.
- vi. Understand GPU architectures and programming
- vii. Have the ability to performance evaluation and tuning of parallel and distributed applications.

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Terry C. Jones



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Kenya National Assembly Official Record (Hansard) ,2000-11-14 The official records of the proceedings of the Legislative Council of the Colony and Protectorate of Kenya the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya *Kenya National Assembly Official Record (Hansard)* ,2000-11-14 The official records of the proceedings of the Legislative Council of the Colony and Protectorate of Kenya the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya **Trails in Academic and Administrative Leadership in Kenya** Michieka, Ratemo Waya,2017-05-03 Scholars especially those interested in understanding how leadership has inhibited academic freedom and hindered effectiveness of institutions of higher learning have for long been engaged by the very important manner in which governance and leadership of higher education institutions in Africa is constituted and managed The fact that there has been a dearth of work based on the experiences of those who have served as university leaders has created a major gap Questions remain on how leaders of higher education institutions are identified how they are prepared the personal predispositions that individuals bring to the exercise of such positions and their personal experiences regarding what energizes or inhibits the performance of their work Until recently presidents in most African countries served as chancellors of public universities identification of those who served as university leaders was largely a political process But much has changed with most countries establishing oversight bodies and the overall governance of higher education institutions divorced from the day to day political processes Trails in Academic and Administrative Leadership in Kenya provides a personal account of the experiences in higher education leadership from an individual whose tenure in leadership straddled the two eras In this book Prof Michieka provides an account of how his early education prepared him for roles in academic and institutional leadership in Kenya The author shares his experiences on the trails he had to navigate as an academic a vice chancellor and a chairperson of university council at a time when universities in Kenya were transiting from extreme government administrative control to a greater degree of operational autonomy Readers will find in this work thought provoking insights on how leaders of higher education institutions in Kenya have had to balance between demands of the political system and the need to safeguard academic traditions in the everyday management of the institutions **Sustainable Energy for All** David Ockwell,Rob Byrne,2016-08-19 Despite decades of effort and billions of dollars spent two thirds of people in sub Saharan Africa still lack access to electricity a vital pre cursor to economic development and poverty reduction Ambitious international policy commitments seek to address this but scholarship has failed to keep pace with policy ambitions lacking both the empirical basis and the theoretical perspective to inform such transformative policy aims Sustainable Energy for All aims to fill this gap Through detailed historical analysis of the Kenyan solar PV market the book demonstrates the value of a new theoretical perspective based on Socio Technical Innovation System Building Importantly the book goes beyond a purely academic

critique to detail exactly how a Socio Technical Innovation System Building approach might be operationalized in practice facilitating both a detailed plan for future comparative research as well as a clear agenda for policy and practice Chapters 1 and 6 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution CC BY 4.0 license

Differentiation and Articulation in Tertiary Education Systems Njuguna Ng'ethe, George Subotzky, George Afeti, 2008-01-01 This title explores an area of tertiary education that is currently understudied this is the extent and nature of differentiation and articulation in African tertiary education systems The overall finding is that the binary system is dominant characterised by universities and polytechnics as distinct types of institutions Differentiation is clearly evident in Africa However though varied in nature and extent the differentiation is mostly horizontal as opposed to vertical Articulation on the other hand seems to be in its infancy as some universities in their admission requirements do

The Routledge Handbook of Tourism and Hospitality Education Dianne Dredge, David Airey, Michael J. Gross, 2014-10-03 Tourism is much more than an economic sector it is also a social cultural political and environmental force that drives societal change Understanding responding to and managing this change will inevitably require knowledge workers who are able to address a range of problems associated with tourism travel hospitality and the increasingly complex operating environment within which they exist The purpose of this Handbook is to provide an insightful and authoritative account of the various issues that are shaping the higher educational world of tourism hospitality and events education and to highlight the creative inventive and innovative ways that educators are responding to these issues It takes as its central focus a dynamic curriculum space shaped by internal and external factors from global to local scales a variety of values and perspectives contributed by a range of stakeholders and shifting philosophies about education policy pedagogy and teaching practice A benchmark for future curriculum design and development it critically reviews the development of conceptual and theoretical approaches to tourism and hospitality education The Handbook is composed of contributions from specialists in the field is interdisciplinary in coverage and international in scope through its authorship and content Providing a systematic guide to the current state of knowledge on tourism and hospitality education and its future direction this is essential reading for students researchers and academics in Tourism Hospitality Events Recreation and Leisure Studies

Economic Survey Kenya. Central Bureau of Statistics, 2000

Perspectives in Defense Management, 1974

Historical Survey of the Origins and Growth of Mau Mau F. D. Corfield, Great Britain. Colonial Office, 1960

Distance Teaching for the Third World Michael Young, Hilary Perraton, Janet Jenkins, Tony Dodds, 2010-11-26 This reissue first published in 1980 is based on the experiences of the International Extension College in developing distance teaching The volume begins by reviewing the world problems of educational quality and quantity and then examines the ways in which print broadcasts and group study have been used to train teachers to improve classroom education to teach by correspondence out of school and to support rural development It then considers how that experience can be used perhaps by creating a network of radio colleges to

supplement and extend existing schools and colleges Finally the book includes a descriptive and annotated bibliography of over 100 distance teaching projects in 65 third world countries *Perspectives in Defense Management* ,1973 **The Encyclopedia of Comparative Education and National Systems of Education** T. Neville Postlethwaite,1988

Proceedings ,1992 *Proceedings of 2005 JKUAT Scientific, Technological, and Industrialisation Conference* ,2006

Peacemaker Thant Myint-U,2025-09-09 A wonderful subject beautifully written evoking a world startlingly like and unlike our own Essential reading for anyone interested in the origins and possibilities of our current global crisis Rory Stewart author of *Politics on the Edge* A new history of the turbulent 1960s told through the life of U Thant the first UN secretary general of color whose decisions once shaped global war and peace In the early 1960s a peaceful world was an imaginable goal The still young United Nations was widely respected and regarded as humankind s best hope for resolving global conflicts African and Asian nations having recently won their freedom from colonial domination sought dignity and influence on the world stage At the helm of their international efforts was U Thant a practicing Buddhist from a remote town in Burma who as the UN s first non Western secretary general became the Cold War era s preeminent ambassador of peace From the moment of his predecessor s mysterious death in 1961 Thant faced a deluge of violent conflicts in Congo Yemen Cyprus and Nigeria as well as one between India and Pakistan that threatened larger conflagrations Crucially during the Cuban Missile Crisis he played an indispensable role virtually hidden until now in defusing tensions and helping both superpowers find a way back from nuclear confrontation For years Thant also challenged Washington over its war in Vietnam identifying paths to peace that could have saved the lives of millions Drawing on newly declassified documents Thant s grandson historian Thant Myint U gives a riveting account of how his grandfather s gentle yet willful disposition shaped his determination to avoid a third world war give voice to the newly decolonized world create a fairer international economy and safeguard the environment Rather than a vestige of an idealistic past U Thant s fight for peace is central to a fresh understanding of our world today *Encyclopedia of African History 3-Volume Set* KEVIN SHILLINGTON.,2005 **Africa Now** ,1983

Journal of Soil and Water Conservation ,2015 Vol 25 no 1 contains the society s Lincoln Chapter s Resource conservation glossary *Congressional Record* United States. Congress,1976 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **China's Aid & Soft Power in Africa** Kenneth King,2013 China s dramatic economic and trade impact on the developing world has received global attention yet its role as an education donor especially for Africans in China and within Africa itself has received little attention Here is hard evidence from Ethiopia Kenya and South Africa of the dramatic growth of China s soft power and of the implications of this for Africa China and the world

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connected to portb0 and portb4

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web this example shows how to create a simulink model to run a line follower algorithm on the arduino robot motor board by accessing the ir sensors and motors you will learn how to access the peripherals of the arduino robot motor board using blocks from the simulink library and the standard arduino library from the simulink support package for

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web jan 28 2015 excellent article about avr atmega8 chip i learnt from part 1 to end of the part 24 end with line follower robot its really superb and now i should frankly said i know all about avr chip whenever ask question i will answer now i am going to make the lfr robot with my own coding differ from yours program

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