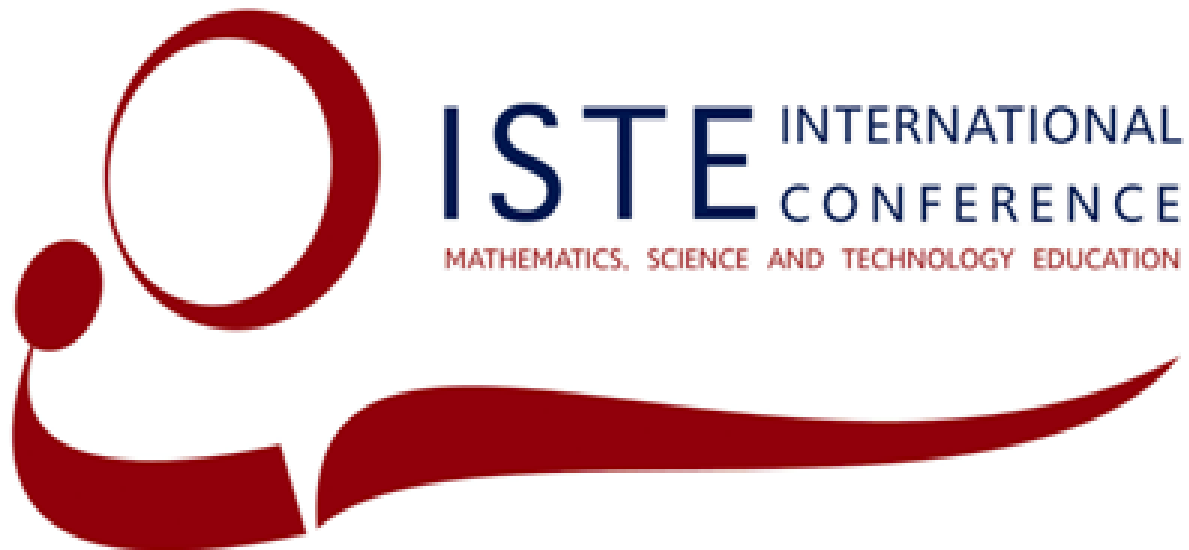


Draft Conference Programme 2019



20 October 2019 (Sunday)

14h00 - 18h00: Arrival and Registration at conference venue

18h30 - 18h45: Opening Ceremony

Venue: restaurant

Introduction and overview of the conference: Prof David Mogari

18h45 – 19h45 Dinner (Restaurant)

21 October 2019 (Monday)

07h30 – 08h15: Breakfast

08h30 – 9h00: Welcome

Venue: Main Hall

Opening of Conference: Welcome: Prof Zungu

Chair: Prof David Mogari

9h00 - 10h30: Plenary Session 1

Prof Samson Nashon (Canada)

Title: **Relevance into science learning through contextualized pedagogy**

Venue: Main Hall – Chair: Prof David Mogari

10h30-11:00 Tea in Foyer

21 October 2019 (Monday)

MON	Venue: Main Hall Mathematics Education Chair: Ingrid Sapire	Venue 1 Life Science Education Chair: Lydia Mavuru	Venue 2 Digital Education Chair: Jameson Goto	Venue 3 Physics education Chair: Prof J Kriek
11h00-11h30	CONNECTION BETWEEN PRIOR KNOWLEDGE AND STUDENT ACHIEVEMENT IN ENGINEERING MATHEMATICS: <i>Rina Durandt</i>	EDUCATION FOR SUSTAINABLE DEVELOPMENT (ESD) AND INCLUSION- A CASE STUDY OF THE "CASHEW" PROGRAMME: <i>Katarina Roncevic and Prof Esther Kibuka-Sebitosi</i>	RELATING STUDENT PERCEPTIONS OF READINESS TO STUDENT SUCCESS: <i>Leandra van der Merwe, Madeleine Groenewald, Carin Venter, Charmaine Scrimnger-Christian and Mmoso Bolofo</i>	UNIVERSITY PHYSICS TEACHERS' REFLECTION ON THEIR DISCURSIVE PRACTICES: <i>Cedric Linder, Anne Linder and Susanne Wikman</i>
11h30-12h00	TEACHING EUCLIDEAN GEOMETRY WITH GEOBOARD PROMOTES PRACTICAL TEACHING: <i>Mandlenkosi Richard Sibiya</i>	THE CONUNDRUM OF INTEGRATING INDIGENOUS KNOWLEDGE IN SCIENCE CURRICULUM THEMES: A REVIEW OF DIFFERENT VIEWPOINTS: <i>Johané Steenkamp, Josef De Beer and Neal Petersen</i>	THE INFLUENCE OF DESCRIPTIVE AND SOCIAL NORMS IN THE ACCEPTANCE AND USE OF ONLINE FORMATIVE FEEDBACK IN AN UNDERGRADUATE MODULE: <i>Jameson Goto, Jacqueline Batchelor and Geoffrey Lautenbach</i>	ASSESSING THE ROLE OF IMPLICIT SCAFFOLDING IN FACILITATING VIRTUAL PHYSICAL SCIENCES LEARNING: <i>Mafor Penn</i>
12h00-12h30	CODE SWITCHING IN MULTILINGUAL MATHEMATICS CLASSES: WHAT IS LOST IN TRANSLATION?: <i>Clemence Chikiwa</i>	LEARNERS' PERCEPTIONS ABOUT THE INTEGRATION OF THEIR SOCIO-CULTURAL BELIEFS IN LIFE SCIENCES: <i>Lydia Mavuru</i>	AWARENESS OF THE DARK SIDE OF TECHNOLOGY OF IT STUDENTS AND THEIR TECHNOLOGY USE: <i>Lynette Drevin and Joy Dahee Kim</i>	REFLECTIONS OF PROBLEM SOLVING STRATEGIES AMONGST SENIOR AND JUNIOR PHYSICS STUDENTS: <i>Leelakrishna Reddy</i>
12h30-13h00	FOUNDATION PHASE MATHEMATICS TEACHERS' AND LEARNERS' LANGUAGE PREFERENCES GAUTENG SCHOOLS: <i>Ingrid Sapire</i>	INDIGENOUS KNOWLEDGE SYSTEMS: ITS AFFORDANCES AND RESTRAINTS IN SCHOOL SCIENCE EDUCATION: <i>Josef De Beer</i>	DIGITAL EXPERIENCES OF HIGHER EDUCATION STUDENTS IN GHANA: HOW DOES IT COMPARE: <i>Justice Kofi Armah and Duan van der Westhuizen</i>	LIFE SCIENCES LEARNERS' EXPERIENCES IN IMPLEMENTING CASE STUDIES AS AN EXAMPLE OF A HYBRID PROBLEM-BASED LEARNING METHOD: <i>Jhani Venter, Neal Petersen and Aubrey Golightly</i>

13h00 - 14h00: Lunch (Restaurant)

21 October 2019 (Monday)

MON	Venue: Main hall Mathematics Education Chair: Dr C Chikiwa	Venue 1 Educational Technology Chair: Dr Willem Rauscher	Venue: 2 Technology Education Chair: Prof Atsumbe	Venue 3 Engineering Education Chair: Dr Mogashana
14h00-14h30	ENHANCING ACADEMIC PERFORMANCE THROUGH FORMATIVE ASSESSMENT: AN EMPIRICAL ANALYSIS OF A MATHEMATICAL POSTGRADUATE COURSE: <i>Usanda Monwabisi and Siphon Hlabane</i>	STUDENTS EXPECTATIONS FOR DIGITAL CAPABILITIES DEVELOPMENT: A CASE OF GHANA: <i>Justice Kofi Armah and Duan van der Westhuizen</i>	EFFECTS OF FELDER-SILVERMAN AND HONEY-MUMFORD LEARNING MODEL ON STUDENTS' ACHIEVEMENT AND INTEREST IN RADIO TELEVISION AND ELECTRONICS WORK IN TECHNICAL COLLEGE: <i>Atsumbe Bernard Numgwo, Raymond Emmanuel, Samuel Ayanda Owodunni and Rose Esse Ekpe</i>	EXPLORING STUDENT PERSPECTIVE ON THE EXTENDED PROGRAM: <i>Henrietta Steenkamp and Cristina Anghel</i>
14h30-15h00	TASK-SOLVING IN MATHEMATICS: THE SIGNIFICANCE OF VISUAL IMAGERY: <i>Beata Dongwi and Marc Schafer</i>	IMPACT OF COMPUTER-ASSISTED INSTRUCTIONAL STRATEGY ON SCHOOLCHILDREN'S SOCIAL SKILLS: <i>Olugbenga Ige</i>	STUDENT'S PERCEPTIONS OF ASSESSMENT PRACTICES IN TVET SECTOR IN SOUTH AFRICA: <i>Sylvia Ramaligela</i>	A REVERSE ORDER LIFE CYCLE APPROACH TO ENHANCE SYSTEMS ENGINEERING EDUCATION AT UNDERGRADUATE LEVEL: <i>Sune von Solms and Johan Meyer</i>
15h00-15h30	PRE-SERVICE TEACHERS' PERCEPTIONS TOWARD TEACHING STEM IN THE INTERMEDIATE PHASE: <i>Werner Engelbrecht</i>	TEACHERS' COMPETENCE AND PEDAGOGICAL PRACTICES IN THE USE OF EDUCATIONAL TECHNOLOGY TOOLS IN GRADES 10 - 12 MATHEMATICS: <i>Mathomo Moila</i>	21ST CENTURY TEACHER SKILLS: DESIGN PRINCIPLES FOR STUDENT ENGAGEMENT AND SUCCESS: <i>Geoffrey Lautenbach</i>	CONCEPTUALISING THE TRANSLITERATION OF THE VAN HIELE THEORY TO ENGINEERING GRAPHICS AND DESIGN: <i>Vernon Candiotes, Sonja van Putten and Willem Rauscher</i>
15h30 – 16h00	CONTEXTUALIZING E-TUTOR SUPPORT STRATEGIES AT AN OPEN DISTANCE AND E-LEARNING INSTITUTION: <i>Mpipo Sedio and Mmankoko Ramorola</i>	EFFECT OF MULTIMEDIA COMPUTER INSTRUCTIONAL PACKAGE ON TVET COLLEGE STUDENTS' UNDERSTANDING OF MECHANICAL PROPERTIES OF STEEL: <i>Stanley Chinonye Maduikwe and Harrison Atagana</i>	COMPLEMENTING ARTIFICIAL INTELLIGENCE IN MATERIALS ENGINEERING EDUCATION: <i>Iyiola Otunniyi</i>	ENGINEERING CAPSTONE PROJECTS: A CASE STUDY CONDUCTED AT UNISA: <i>Petrus Kruger and George Nickola</i>

18h00 – 19h00: Dinner in Restaurant

22 October 2019 (Tuesday)

07h45 – 08h30: Breakfast

08h30-10h00: Plenary session 2

Prof Punya Mishra (USA)

Title: Bringing design to technology & education: Going from Artifacts and processes to Systems and Culture

Venue: Main Hall – Chair: Prof Jeanne Kriek.

10h00 – 10h30 Official photo of conference

10h00 – 10h30: Tea (Foyer)

TUES	Venue: Main hall Mathematics Chair: Dr Sello Makgakga	Venue 1 ICT Education Chair: Prof K Padayachee	Venue 2 Science Education Chair: Dr Maria Tsakeni	Venue 3 Technology Education Chair: Prof G Lautenbach
10h30-11h00	WHO IS ACTUALLY DRIVING? A TRANS-THEORETICAL VIEW OF MATHEMATICS ANXIETY: <i>Nardia Randell and Geoffrey Lautenbach</i>	IT GRADUATES' FIRST YEAR OF EMPLOYMENT: EXPERIENCE AND RECOMMENDATIONS FOR THE CURRICULUM: <i>Annelee Panday and Marthie Schoeman</i>	<i>DEVELOPING PRE-SERVICE SCIENCE TEACHERS' PEDAGOGY IN AN INQUIRY-BASED CLASSROOM: EXAMINING THEIR REPRESENTATIONAL COMPETENCE AND FLUENCY: Nazeem Edwards and Lize Maree</i>	CONSTRUCTING KEY CONCEPTS IN TECHNOLOGY EDUCATION FOR TEACHERS IN THE ILEMBE DISTRICT: <i>Richard Naidoo and Roy Rambrij</i>
11h00-11h30	GRADE 6 TEACHERS BELIFES ABOUT MATHEMATICS AS A SUBJECT AND TEACHING AND LEARNING: <i>Batseba Mofolo-Mbokane and Rosina Ngoako</i>	RURAL LEARNERS' PATTERNS OF ENGAGEMENT IN SYNCHRONOUS ONLINE MENTORING MOBILE GROUP CHATS TO ADVANCE CONCEPTIONS OF CAREER DEVELOPMENT: <i>Linford Molaodi and Jacqueline Batchelor</i>	PRESERVICE TEACHERS' REFLECTIONS ON TEACHING SCIENCE WITH PRACTICAL WORK IN MULTIPLE-DEPRIVED CLASSROOMS: <i>Maria Tsakeni</i>	UNDERSTANDING THE INFLUENCE OF PEDAGOGICAL BELIEFS ON ADOPTION OF TECHNOLOGY IN TEACHING: <i>Carmen Miséria and Clement Simuja</i>

22 October 2019 (Tuesday)

TUES	Venue: Main hall Mathematics Chair: Dr Sello Makgakga	Venue 1 ICT Education Chair: Prof K Padayachee	Venue 2 Science Education Chair: Dr Maria Tsakeni	Venue 3 Technology Education Chair: Prof G Lautenbach
11h30-12h00	TWINNING TWO GRADE 11 MATHEMATICS TEACHERS INTEGRATING INFORMATION COMMUNICATION AND TECHNOLOGY IN TEACHING ALGEBRA: <i>Dr Sello Makgakga</i>	REFLECTING ON THE USE OF PBL FOR 21ST CENTURY COMPETENCIES IN AN IT EXTENDED PROGRAMME: <i>J. T. Janse van Rensburg and Roelien Goede</i>	THE EXPERIENCES OF THE FOUNDATION PHASE TEACHERS IN IMPLEMENTING CURRICULUM AND ASSESSMENT POLICY STATEMENT: <i>Mohlakola Mathiba and Mmankoko Ramorola</i>	PRE-SERVICE TEACHER'S ACCEPTANCE AND USE OF A SYNCHRONOUS AND COLLABORATIVE ONLINE TOOL TO SUPPORT TEACHING AND LEARNING AT A PRIVATE HIGHER EDUCATIONAL INSTITUTE: <i>Alfred Machingambi and Jacqueline Batchelor</i>
12h00-12h30	VISUALISATION PROCESSES IN NAMIBIAN MATHEMATICS CLASSROOMS: <i>Clemence Chikiwa and Marc Schäfer</i>	UNDERSTANDING THE INFLUENCE OF PEDAGOGICAL BELIEFS ON ADOPTION OF TECHNOLOGY IN TEACHING: <i>Carmen Miséria and Clement Simuja</i>	TEACHERS' CONCERNS ON INTEGRATING INFORMATION AND COMMUNICATION TECHNOLOGIES INTO PHYSICAL SCIENCE IN LESOTHO: <i>Lucia Lisene, Loyiso Jita and Thuthukile Jita</i>	INFORMAL MATHEMATICAL KNOWLEDGE DIFFUSION AMONG RURAL SECONDARY SCHOOL LEARNERS USING WHATSAPP: <i>Lindiwe Mthethwa and Mmankoko Ramorola</i>
12h30-13h00	AN EXPLORATORY STUDY ON THE MINDSETS AND MOTIVATION OF MATHEMATICS TEACHERS: <i>Erica Spangenberg</i>	TEACHERS' REFLECTIONS IN THE USE OF LEARNING TECHNOLOGIES IN INCLUSIVE EDUCATION: <i>Rabaitse Diseko and Precious Pule Sechaba</i>	USE OF TARGETED WEB-BASED INSTRUCTION TO ENHANCE LEARNERS' UNDERSTANDING OF ASTRONOMY CONCEPTS: <i>Koketso Nthimbane and Monde Kazeni</i>	TRENDS OF EMERGING TECHNOLOGIES IN ONLINE LEARNING: THE NEXT FIVE YEARS: <i>Ngaka Mosia</i>

13h00 - 14h00: Lunch (Restaurant)

14h00 – 16h30
WORKSHOP: Quantitative Research analysis
Mr Hennie Gerber
Venue: Main Hall

16h00 - 18h00: Time off for self-game-drive in the Kruger National Park

18H00 - 19:00: DINNER (RESTAURANT)

TO CELEBRATE THE 10TH ANNIVERSARY OF THE CONFERENCE
TUESDAY DINNER IS A FANCY DRESS, CULTURAL DRESS OR
WHEREVER YOUR CREATIVITY TAKES YOU

23 October 2019(Wednesday)

07h45 - 08h30: Breakfast

08h30 - 10h00: Plenary Session 3
Dr James Keevy (Joint Education Trust)
Title: Digital interoperability: the new frontier for academic integrity in education
 Venue: Main Hall – Chair: Prof Keshnee Padayachee

10h00 - 10h30: Tea (foyer)

WED	Venue: Main hall Mathematics Education Chair: Prof K Luneta	Venue 2 Modelling and Statistics Education Chair: Prof L Drevin	Venue 3 Science Education Chair: Prof E Kibuka Sebitosi
10h30-11h00	IMPLEMENTING PBL IN A FOUNDATION PROGRAMME MATHEMATICS CLASSROOM: EXAMPLES OF PROBLEMS: <i>Mdu Ndlovu</i>	THE CORRELATION BETWEEN GRADE 11 LEARNERS' FUNCTIONAL UNDERSTANDING OF PROOF AND ARGUMENTATION: Benjamin Shongwe	IMPLEMENTATION OF ESD IN SOUTH AFRICA: LIFE SCIENCES: <i>Prof Esther Kibuka-Sebitosi</i>
11h00-11h30	ESSENTIAL EDUCATIONAL NEUROSCIENCE KNOWLEDGE FOR MATHEMATICS TEACHERS: <i>Kakoma Luneta</i>	ASSESSMENT OF TERTIARY STUDENTS' LEARNING OF STATISTICAL MODELLING: <i>Vaughan van Appel and Rina Durandt</i>	A WHOLESCHOOL APPROACH TO EDUCATION FOR SUSTAINABLE DEVELOPMENT IN SOUTH AFRICA AND GERMANY: <i>Prof Esther Kibuka-Sebitosi and Katarina Roncevic</i>
11h30-12h00	THE PRACTICALITY OF TEACHING MATHEMATICS IN SHONA IN THE ZIMBABWEAN PRIMARY SCHOOLS: <i>Chipo Makamure</i>	PERFECTION THROUGH REFLECTION: VALIDATION OF THE ASSIST INVENTORY FOR LEARNING STATISTICS: <i>Thea Corbett</i>	EFFECTIVENESS OF RECONCEPTUALISED NATURAL SCIENCES INTERVENTIONS IN MPUMALANGA: <i>Sikhulile B. Msezane</i>
12h00-12h30	TEACHING STRATEGIES USED BY SPECIAL NEEDS TEACHERS IN MATHEMATICS CLASSROOMS: <i>Batseba Mofolo-Mbokane and Elizma Louw</i>	TWO PERSPECTIVES ON THE GRADUATE ATTRIBUTES OF IT STUDENTS AFTER WORK-INTEGRATED LEARNING: <i>Linda Redelinguys and Lynette Drevin</i>	ENVIRONMENTAL ENRICHMENT FOR TEACHING AND LEARNING EDUCATION FOR SUSTAINABLE DEVELOPMENT: ZOOCLUBS: <i>Parks Leshaba and Prof Esther Kibuka-Sebitosi</i>
12h30 - 13h00	A COMPARISON OF STRATEGIES USED IN SINGAPORE AND SOUTH AFRICA IN GRADE 9 MATHEMATICS CURRICULA: <i>Raphael Soda and France Machaba</i>	TOUCHTUTOR®: A 21ST-CENTURY OFFLINE TOOL TO ENHANCE THE SELF-DIRECTED LEARNING OF FET MATHEMATICS LEARNERS: <i>Tom Mosiane and Werner Olivier</i>	ACTIVE LEARNING STRATEGIES AS DETERMINANTS OF PRE-SERVICE BIOLOGY TEACHERS: <i>Olayemi Asaaju</i>

13h00 - 14h00: Lunch (Restaurant)

23 October 2019(Wednesday)

WED	Venue: Main hall Mathematics Education Chair: Dr F Machaba	Venue 1 ICT Chair: Prof R Naidoo	Venue 2 Technology Education Chair: Dr L Goosen
14h00-14h30	EXPLORING GRADE 7 LEARNERS' PERCEPTIONS ON AWFS IN MULTIPLICATIVE WORD PROBLEM-SOLVING WORDS: <i>Nothile Kunene</i>	THE CRITICAL ROLE OF PROFESSIONAL DEVELOPMENT FOR SCIENCE TEACHERS IN A SOUTH AFRICAN CONTEXT: <i>Thasmai Dhurumraj</i>	APPLICATION OF DIGITAL GAME BASED LEARNING IN INDUSTRIAL ENGINEERING TEACHING AND LEARNING IN AN ONLINE DISTANCE LEARNING INSTITUTION: <i>Ngaka Mosia</i>
14h30-15h00	CORPORATIVE LEARNING AS A "FORM" THAN A "SUBSTANCE" AS AN ATTEMPT TO DEVELOP CONCEPTUAL THAN PROCEDURAL KNOWLEDGE IN SOLVING ALGEBRAIC EQUATIONS: A CASE OF GRADE 11 MATHEMATICS LEARNERS: <i>Fourie Malatjie and France Machaba</i>	DIAGNOSTIC ANALYTICS OF ALGEBRA IN A MATHEMATICS BLENDED LEARNING COURSE AT A UNIVERSITY OF TECHNOLOGY: <i>Richard Naidoo</i>	TOWARDS INNOVATIVE BEHAVIOR FOR TECHNOLOGY STUDENTS: <i>James K. Ngugi and Leila Goosen</i>

15h00 – 16h00
Viva Sessions
Chair: Professor Mogari



16h00 – 18h00
Sunset drive and bush braai

24 October 2019 (Thursday)

07h45 - 08h30: Breakfast

08h30 - 10h00: Plenary Session 4

Prof Rob O' Donoghue

Title: **Working towards future sustainability in more socially just ways that include indigenous heritage practices and the Sustainable Development Goals (SDGs)**

Venue: Main Hall

Chair: Prof H Atagana

10h00 - 10h30: Tea (Foyer)

10h30 - 11h30: Workshop

Prof Max Braun

Title: **What to look out for when writing your dissertation or thesis**

Venue: Main Hall

WED	Venue: Main hall Mathematics Education	Venue 1 Science Education	Venue 2 Mathematics Education
11h30-12h00	Chair:	Chair:	Chair:

13h00 - 14h00: Lunch (Restaurant) and closing of conference

Time off for self-game-drive in the Kruger National Park
18h00 - 20h00: Dinner (Restaurant)

25 October 2019 (Friday)

08h00 - 11h00: Departure

SUBJECT TO CHANGE

Updated: 17/10/2019 09:40