3rd RESEARCH AND INFORMATION LITERACY SKILLS IN THE WORKPLACE SEMINAR

A FOCUS ON DATA LITERACY

Cape Peninsula University of Technology
creating futures

CPUT LIBRARIES

The Importance of Data Literacy in the Teaching Profession

Western Cape Government
FOR YOU

Cape Peninsula University of Technology

Prof Hanlie Dippenaar [CPUT]
Mr Joey Salmans [WCED]

Western Cape Government

FOR YOU

Cape Peninsula
University of Technology

o Data literacy at undergraduate level
o Data literacy at postgraduate level
o What is required in the workplace?
o Research in the classroom
o Further studies for teachers
o Way forward

DATA LITERACY:

The ability to read, understand, create, and communicate data as meaningful information.

How to work with data, interpreting charts, graphs, and numbers, asking the right questions about the data's source, quality, and relevance.

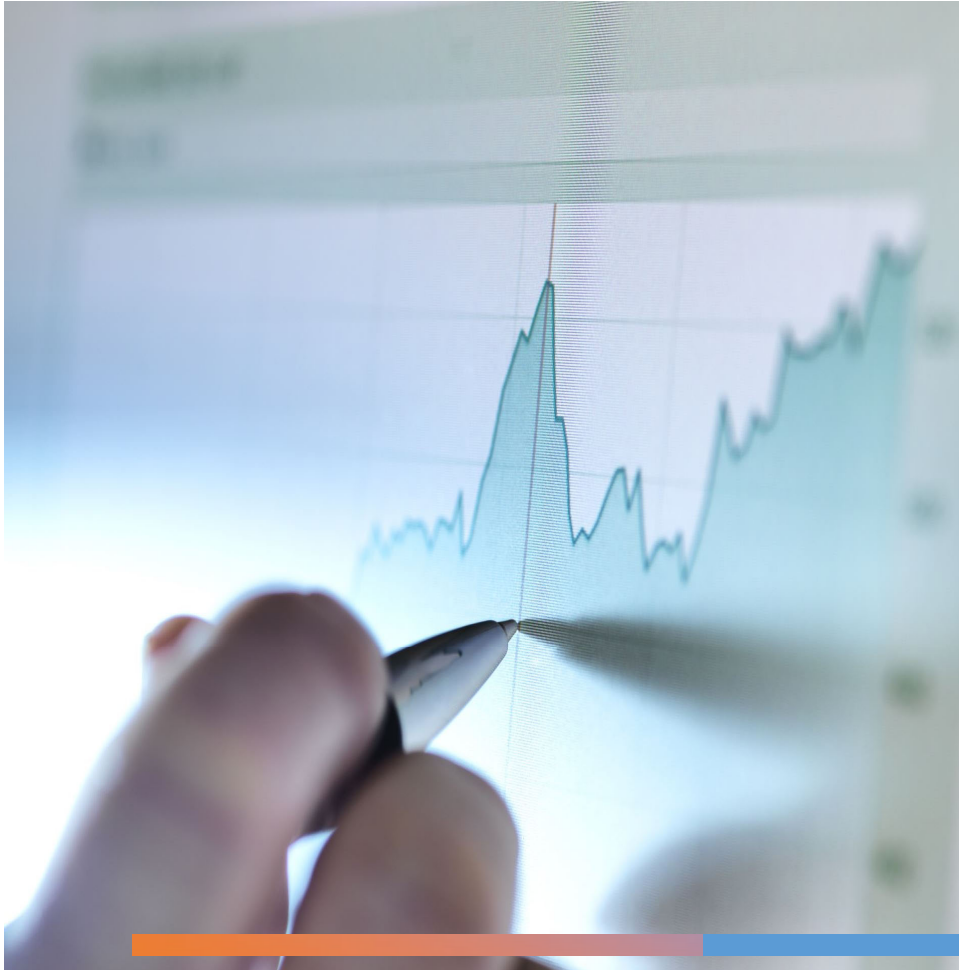Interpret insights from data and use these insights to make informed decisions.

Undergraduate studies

Data Literacy

Western Cape Government
FOR YOU

Cape Peninsula University of Technology

B. Ed. Curriculum

➢ Academic and research knowledge
➢ Pedagogical content knowledge
➢ Professional knowledge
➢ Classroom knowledge
➢ Continuous assessment

➢ Data literacy essential for pre-service teachers, to analyse, interpret and utilize data

Understanding Educational Data: student assessment scores, attendance records, behavioural data.

Interpreting Data for Student Growth: standardised test scores or formative assessment - informed decisions about targeted support.

Differentiating Instruction Based on Data: creating lessons and interventions that address specific student needs.

Using Data Tools and Technology: data management systems and software to track and analyse student data.

Ensuring Data Privacy and Ethical Use: POPIA, share data with stakeholders responsibly.

Evaluating Data Quality and Bias: critical thinking about the reliability and validity of data sources.

Collaborating with Colleagues: collaborative data analysis discussions with colleagues

The current reality

- Not enough exposure to data
- Minimum data interpretation
- Students' assignments not related to data
- No critical thinking re data use
- Coherence missing
- No link between data and real life

Challenges pre-service teachers face

Western Cape Government
FOR YOU

Cape Peninsula University of Technology

Limited Access to Technology

Lack of Digital literacy skills

Difficulty navigating online platforms

Information overload & Digital distractions

Cybersecurity

The Novice Teacher

Work in a team [Collaborate]

PLCs
MS
Teams

WhatsApp

Google

The Novice Teacher

Show passion when teaching [learn, unlearn, re-learn]

Teaching methodologies **Research**

Learner profiles **Analysis Research**

Subject Pedagogy **Research**

Ability to do effective research, analyse, present findings and reccommend

The Novice Teacher

Manage your time. It's precious! [Time Management]

Work smart not hard **Microsoft (Word, PPT etc)**

Informal assessment online Google Forms

Differentiate. Keep ALL learners busy

High level of competency in Search Engines, Online Safety, MS software

The Novice Teacher

Never stop learning [Lifelong Learner]

Hons, MA, PHD

E-pedagogy

Educational trends in SA context

Ability to learn everyday and clearly distinguish - using research - what would work for the context we serve
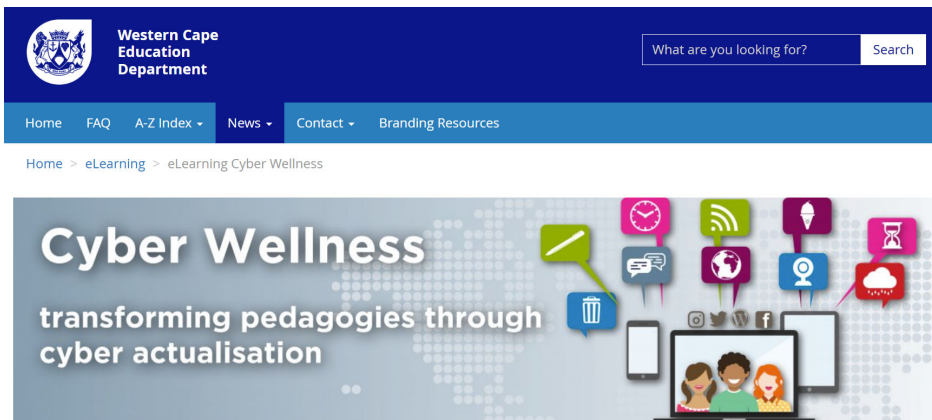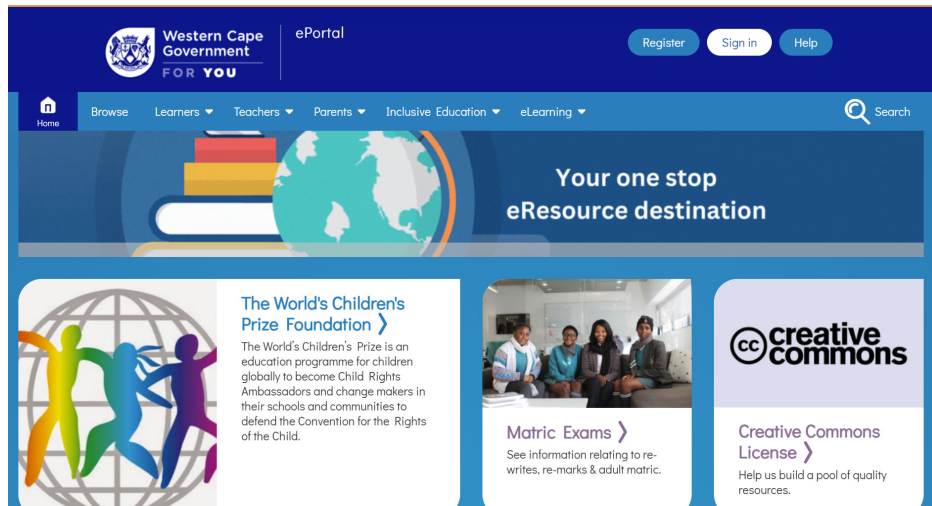
The Novice Teacher

Overcome Obstacles [Resilient]

Psycho-social wellness Online courses

Research on learner behaviour

Personal Growth research

Be able to present resilience in the tough moments

Western Cape Government · ePortal · FOR YOU

Register · Sign in · Help

Home · Browse · Learners · Teachers · Parents · Inclusive Education · eLearning · Search

Your one stop eResource destination

The World's Children's Prize Foundation ❯

The World's Children's Prize is an education programme for children globally to become Child Rights Ambassadors and change makers in their schools and communities to defend the Convention for the Rights of the Child.

Matric Exams ❯
See information relating to re-writes, re-marks & adult matric.

creative commons
Creative Commons License ❯
Help us build a pool of quality resources.

Western Cape Education Department

What are you looking for? · Search

Home · FAQ · A-Z Index · News · Contact · Branding Resources

Home > eLearning > eLearning Cyber Wellness

Cyber Wellness
transforming pedagogies through cyber actualisation

Welcome to **Digital Literacy Skills** for the WCED

Western Cape Government FOR YOU

ONLINE TRAINING
APPLY NOW

Overview

This Digital Literacy Skills course range is designed to assist end users acquire fundamental to advanced skills.

These courses will assist you in the knowledge and practical application of the skills acquired to work more effectively and collaboratively.

Delivery Method

Online
Self-paced
Non-instructor led

Features and Benefits

Acquiring these Digital Literacy Skills will:

- enhance your day-to-day work processes, improve efficiency, workflow, collaboration, and overall ICT experience within the workplace.

- simplify signing up for and participating in more advanced courses.

What you get

An eCertificate will become available for you to download upon successful completion of each digital literacy skills course.

ICT Skills Assessment

Skills assessments are performed to identify the level of competency and readiness for the next digital learning course.
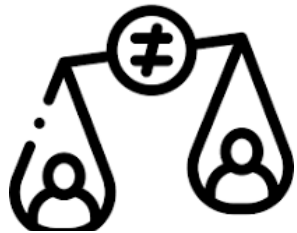
Challenges in-service teachers face

Western Cape Government FOR YOU

Cape Peninsula University of Technology

Inequalities

Digital literacy skills

Infrastructure

Access

Knowledge

E-education

Way Forward

Upskill lecturers to prepare lessons using digital literacy

In-service teacher training to have a digital literacy component

Research tasks which incorporates pedagogy and curriculum matters

Current curriculum [CAPS] ATP 2023/2024 has potential for digital literacy to be infused

Research tasks which includes data interpretation and solutions

Project based learning in term 3 exposes learner to 21st Century skills. Teachers to be trained to use digital tools.

THANK YOU

Prof. Hanlie Dippenaar
Assistant Dean of Education
Mowbray Campus
EMAIL: DippenaarH@cput.ac.za

Cape Peninsula
University of Technology

Joey Salmans
Deputy Chief Education Specialist
Senior Phase Languages
WCED HO
EMAIL: Joey.Klaaste-
Salmans@westerncape.gov.za

Western Cape
Government
FOR YOU