

OERs – Open Educational Resources @ Unisa

*Alice Goodwin-Davey
Centre for Professional Development
October 2017*



Learn without limits.



UNISA | 
university
of south africa

What are OERs?

OER are teaching, learning, and research resources that reside in **the public domain** or **have been released under an intellectual property license** that permits their free use and re-purposing by others

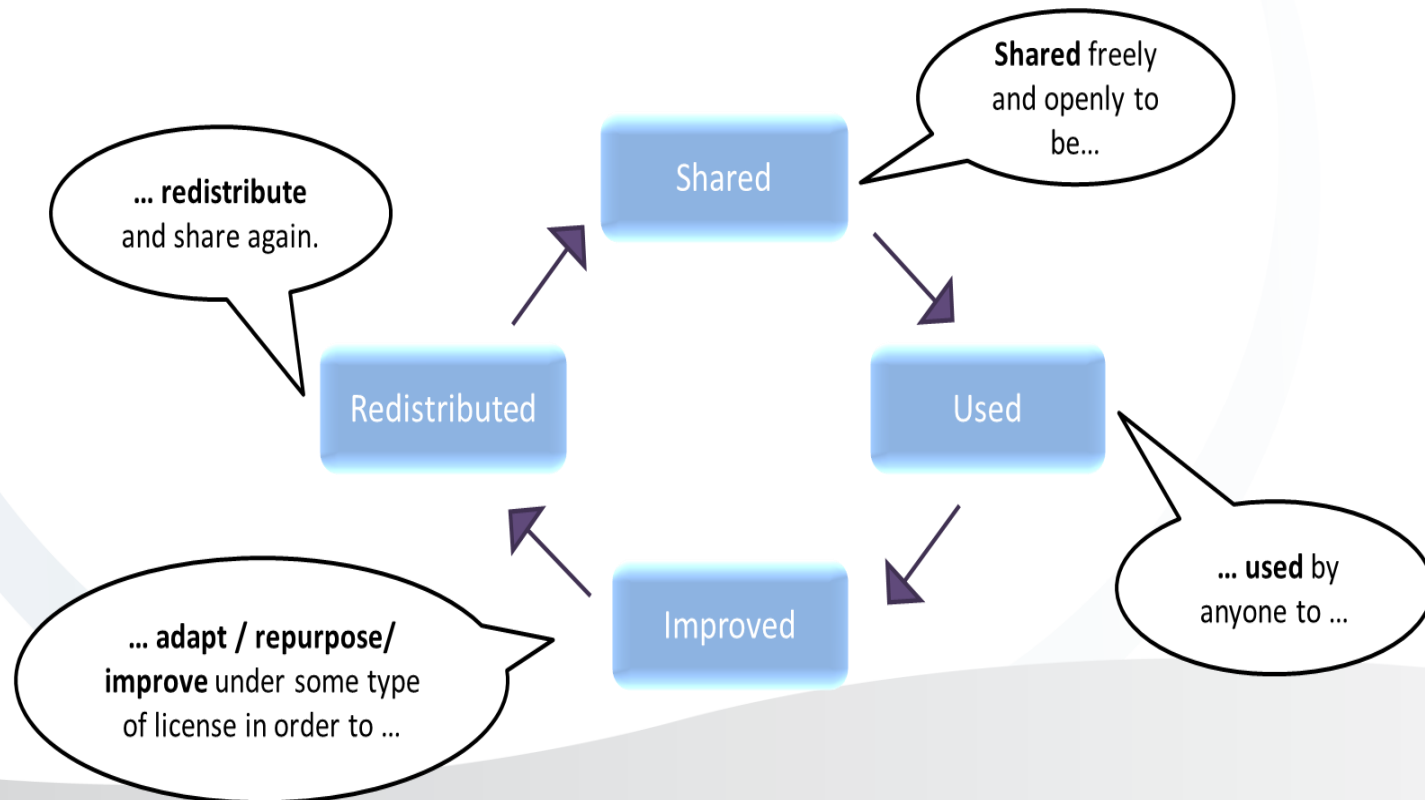
— William and Flora Hewlett Foundation

Examples of OER include: full courses, course modules, syllabi, lectures, homework assignments, quizzes, lab and classroom activities, pedagogical materials, games, simulations, and many more resources contained in digital media collections from around the world.

— OER Commons

OERs are part of the Open Movement

Open Content / Open educational resources (OER) / Open Courseware are educational materials which are **discoverable** online and **openly licensed** that can be:



Open Science



Open Science Grid

Open Educational Resources



Open Society



RISING

Open Data



Commons Movement

Open Source Software

Open Access



Open Licences













Now alternative licensing options such as the GNU General Public License

and Creative Commons provide a range of options where some rights are

Copyright ©	Some rights reserved	Public domain
<p>Work cannot be used, adapted, copied, or published without permission.</p>	<p>Creative Commons:</p> <p>Work may be used without permission, but only under certain circumstances</p> <p>Creators set the rules for the way their work is used.</p>	<p>Work can be used adapted, copied and published, completely without restrictions, no permissions needed.</p>



Creative commons licenses

LICENSES	TERMS
	 BY Attribution Others can copy, distribute, display, perform and remix your work if they credit your name as requested by you
	 SA No Derivative Works Others can only copy, distribute, display or perform verbatim copies of your work
	 ND Share Alike Others can distribute your work only under a license identical to the one you have chosen for your work
	 SA Non-Commercial Others can copy, distribute, display, perform or remix your work but for non-commercial purposes only.
	 NC



What does OER mean to us?

1. **Harnessing** - what is out there – curating
2. **Adapting** – structure of our courses, context
3. **Giving back** – sharing (licensing)



What are the

POTENTIAL

BENEFITS

of OER?

Benefits

- Loads of resources available
- Supplement materials with what is already available
- Build your own resources
- Promote your work to a global audience
- Communities of practice
- Increased quality of learning materials

What are the implications of OERs?

- Unlimited access to knowledge on WWW
- Digital knowledge resources, anytime, anywhere
- Decrease out-of-package costs
- Equipped for an ever-changing society (graduateness)
- Retain copyright and still share



April – 2015

Uptake of OER by S South Africa



Kerry de Hart, Yuraisa Chetty and Eliza
University of South Africa

Open Educational Resources (OER) are typically characterized by the sharing of content. At Unisa as a mega open distance learner, to take part in the use and creation of OER is limited, this prompted an investigation. The purpose of institutional information systems is to support the purpose of institutional information systems. During 2014, a survey was undertaken to investigate Intellectual Property (IP) Rights at the Unisa context with a view to

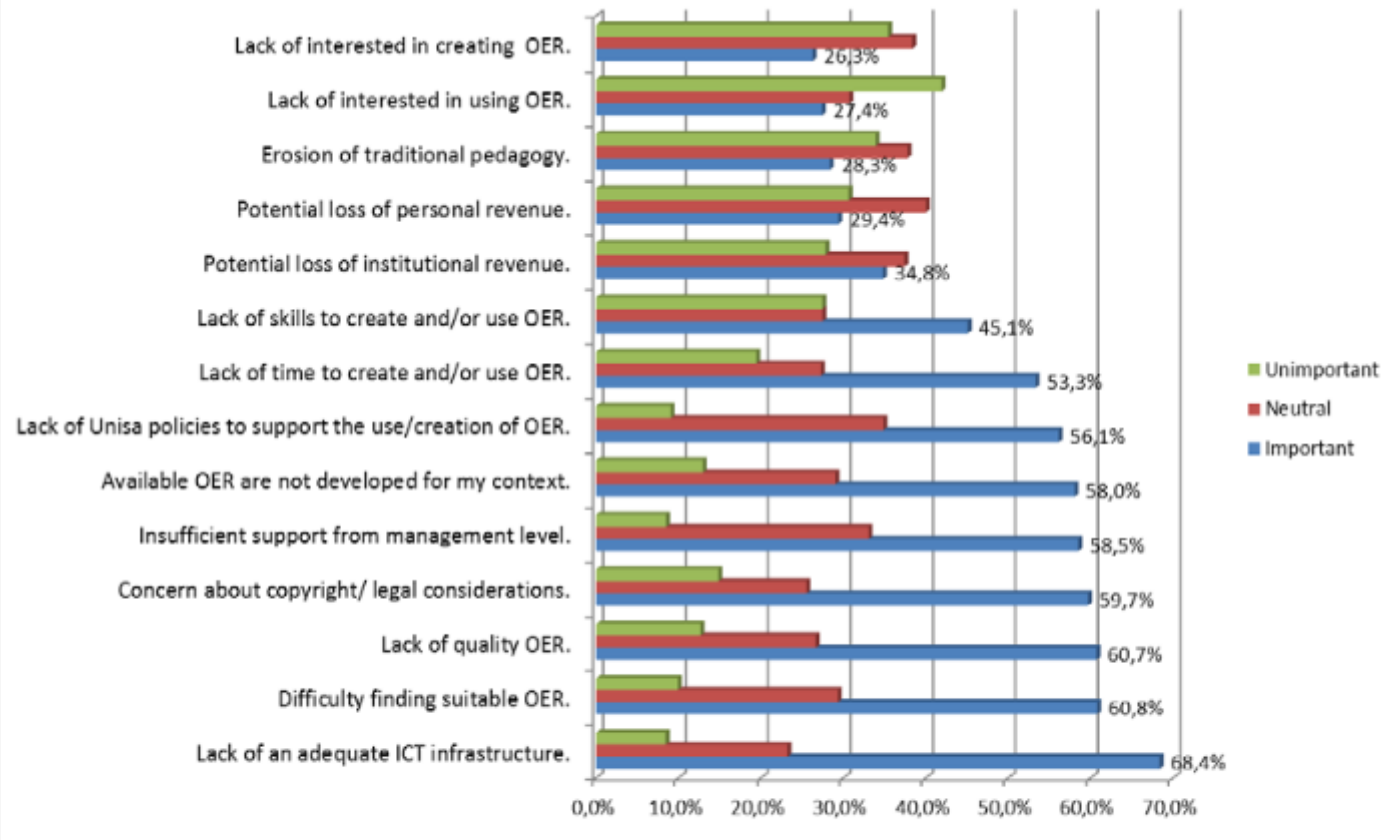
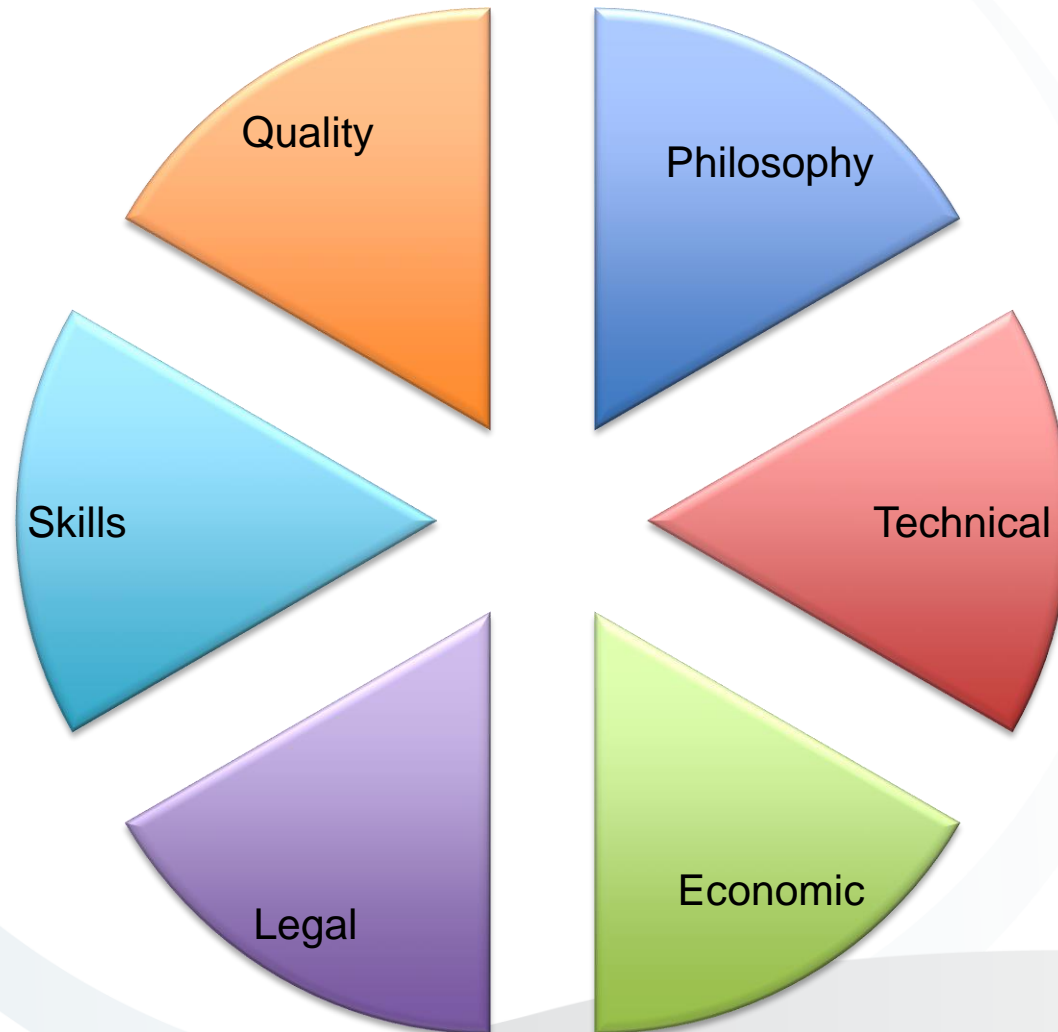


Figure 7. Perceived importance of barriers to engagement with OER (n= 237).

Barriers (Research)



Constraint

- Academics are not aware of Creative Commons or how Creative Commons works
- They are not that concerned about their Intellectual property (although they do want attribution) but they are very concerned about infringing the copyright of others

Constraint

- Fit for use or not ready to use
- Perceptions

2017 OER Strategy

- Unisa Commitment to concept of 'Openness'

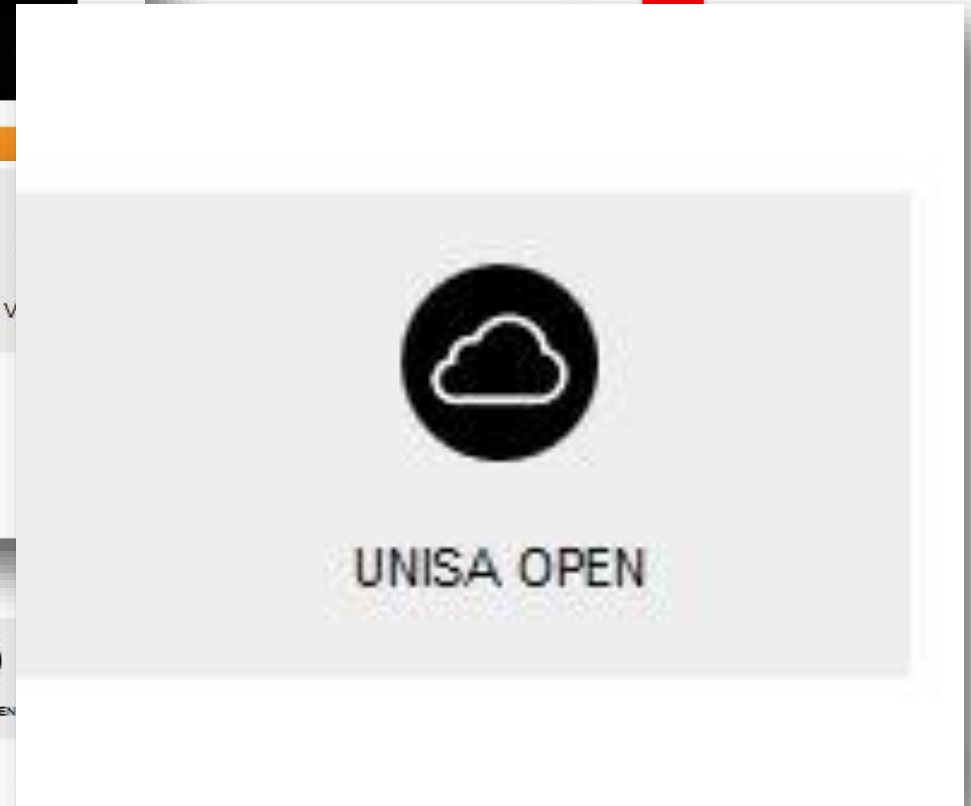
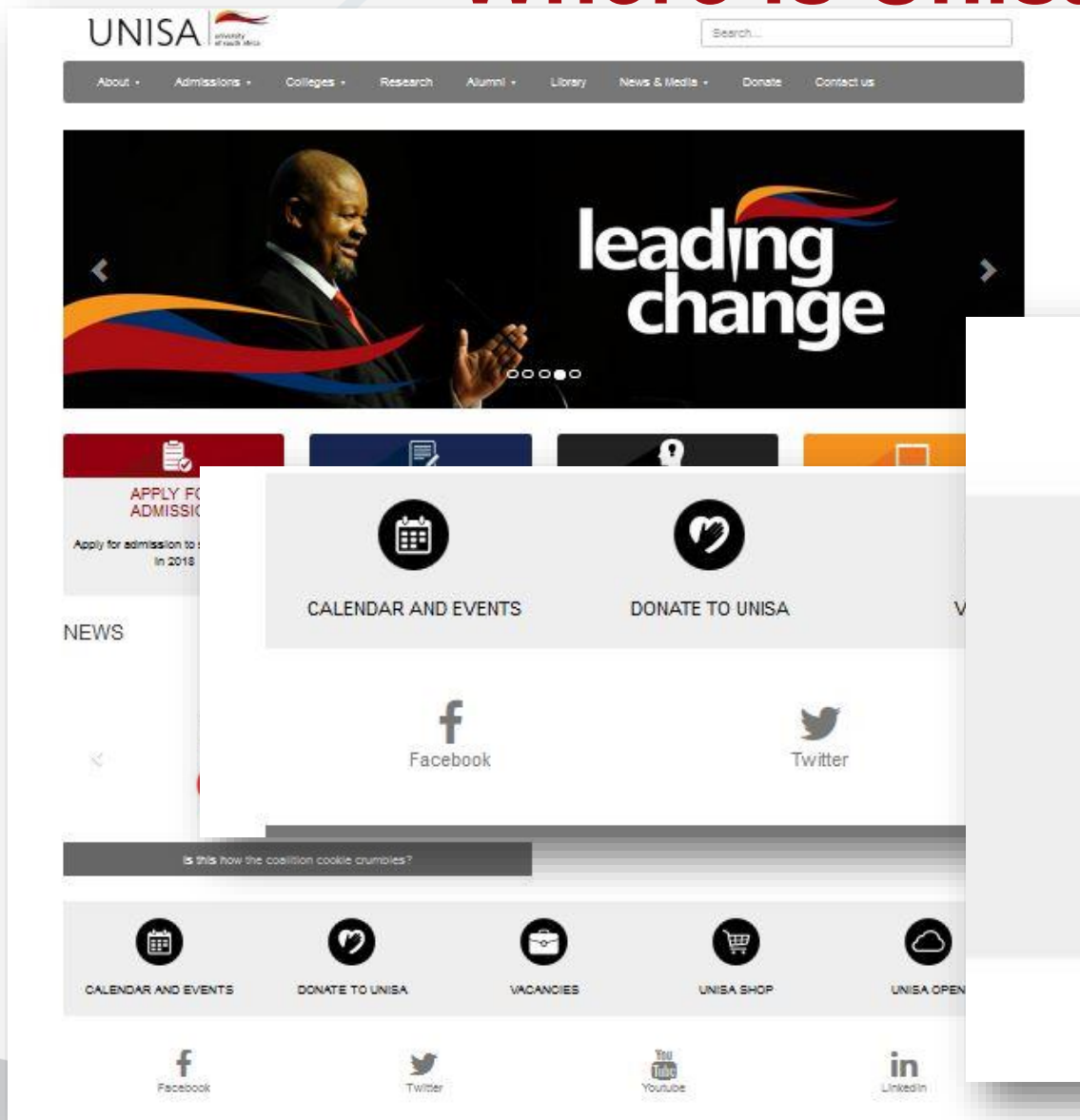
OER STRATEGY:

- **Development of an effective in-house strategy for openness at UNISA.**
- **Systematic integration of high quality available OERs into UNISA courses.**
- **Quality Assuring (QA) targeted open UNISA Courses as contributions to the global OER repository of resources.**
- **Contributions to the global OER repository of resources**
- **Integrated campuses**

Unisa OER Strategy (Cont)

- Strategy for openness - 2017
- Systematic integration of high quality available OERs in Unisa courses – 2018
- QA targetted Open Unisa courses for Global OER Repository – 2019
- Contribution to Global OER Repository – 2020
- Integrated campuses – with other institutions - 2021

Where is Unisa Open?



Unisa OPEN

[What are OERs?](#)

[OER @ Unisa](#)

[Finding OERs](#)

[Open Access](#)

[African & SA OER initiatives](#)

[Contact us](#)

[Learn to speak an African Language](#)



Unisa Open



Over the last few years, Unisa has committed to making sense of the new opportunities and challenges presented by Open Educational Resources (OERs). Having lived through many changes to the shape of education, Unisa is no stranger to new forms of thought and we have not simply followed the OER momentum. An overwhelming amount of information about OERs is available on the internet. Finding the right OER which is of the quality you require, however often proves a challenge. This website aims to provide you with some route markers to find the resources that suit your needs.

- [What are OERs?](#)
- [OER @ Unisa](#)
- [Finding OERs](#)
- [Open Access](#)
- [African & SA OER initiatives](#)
- [OER Funding](#)
- [Contact us](#)
- [Unisa OER community](#)
- [OERu](#)
- [Creative commons](#)
- [Learn to speak an African Language](#)

[What are OERs?](#)[OER @ Unisa](#)[Finding OERs](#)[Open Access](#)[African & SA OER initiatives](#)[Contact us](#)[Learn to speak an African Language](#)

Unisa Open

OER @ Unisa



<https://youtu.be/sAzJe7lrCGk>

Over the last few years, Unisa has committed to making sense of the new opportunities and challenges presented by OER. Having lived through many changes to the shape of education, Unisa is no stranger to new forms of thought and we have not simply followed the OER momentum. Rather, as a community we have shown our intent to help sculpt the conversation around OER and to be a vibrant African voice in this process. We have engaged in research to explore some of the questions around OER and made efforts to create tangible opportunities for educators and scholars to benefit from OER.

- [OER documents @ Unisa](#)
A collection of all Unisa documents which support OER
- [Unisa OpenCourseware and learning objects](#)
Examples of resources (full courses and learning objects) that have been created by Unisa and openly licensed.
- [UIR - Unisa Institutional Repository](#)
Unisa's open digital archive of scholarly intellectual and research outputs of the University of South Africa. The UnisaIR contains and preserves theses and dissertations, research articles, conference papers, rare and special materials and many other digital assets.

The OER movement's aspiration to open access strongly resonates with our open distance learning model where spatial, geographical, economic and demographic boundaries must be reduced to facilitate and increase access to higher education. We are in no doubt about the powerful potential of OER to change the nature of our social relations. By radically reconceptualising normative educational practices in our schools and in our universities, OER will change the way we think about education on our continent, but it will do so only when we have carefully considered its distinct advantages and usages for Africa.

(Personal communication between Prof Makanya and Mr Nzimande, 7 December 2011)

Finding OERs

OER resources are bountiful. Finding the right OER which is of the quality you require, however often proves a challenge. These pages aim to provide you with some route markers to find the resources that suit your needs. Our database is dynamic, so please give us **feedback** if a link is no longer working or you have found another resource that we should add.

- [OER Search Engines](#)
- [Global Open Educational Resources \(OER\)](#)
- [Images](#)
- [OER online archives](#)

OER Search Engines

Several specialised OER search engines exist to support finding OER. Some of these are indicated below.

Search Engine	Description
Ariadne Finder	Find and share learning objects
Bielefeld Academic Search Engine (BASE)	Academic search engine
DiscoverEd	DiscoverEd is a search prototype developed by Creative Commons to explore metadata enhanced search, specifically for OER.
DOER – Directory of Open Educational Resources	Open Educational Resources from Commonwealth universities and educational institutions
Federal Resources for Educational Excellence	digital teaching and learning resources created and maintained by the federal government and public and private organizations.
Google OCW/OER search	Customised search
Jorum	"free learning and teaching resources, created and contributed by teaching staff from UK Further and Higher Education Institutions"
OER Commons	"Find Free-to-Use Teaching and Learning Content from around the World. Organize K-12 Lessons, College Courses, and more."
OER dynamic search engine	Search many sites from one place
OpenTapestry	An excellent search engine which brings open licensed educational resources from all over the Web.
TechXtra	Find articles, key websites, books, the latest industry news, job announcements, ejournals, eprints, technical reports, the latest research, thesis & dissertations and more! In Engineering, Mathematics, and Computing

Images

Site	Description
abstrusegoose	Comics, CC BY NC
compfight	A great search interface for the flickr CC image collection
clker	The online royalty free public domain clip art
creativity 103	useful for finding patterns and backgrounds
dryicons	110 icons available with the Free, Commercial or Extended License
everystockphoto	Everystockphoto.com is a license-specific photo search engine. Currently we index and search millions of freely licensed photos, from many sources, and present them in an integrated search.
flickrcc bluemountains	another front-end for finding CC-licensed content on flickr
flickr commons	To share hidden treasures from the world's public photography archives
flickr.com photos	Great set with character graphics for teambuilding and other corporate activities. Many, but not all, are CC licensed.
fortawesome	The iconic font designed for Bootstrap
images google	use the "Usage Rights" pull down list to search for open content on Google Images
morgueFile	The morguefile contains photographs freely contributed by many artists to be used in creative projects by visitors to the site. To acknowledge the artist's accomplishments, we ask that you credit the photographer when possible.
nounproject	Free public domain icons.
openclipart	high quality, easy to use, free support
opengraphicdesign	CC BY
Pic4Learning	Pics4Learning is an open project where anyone (particularly photographers) can join in and add their photos. The library counts thousands of free images which are all approved for classroom use. These images are also indexed and stored into different categories making it easy for teachers and students to browse and search through them. Have a look and share with us if you know of other similar copyright friendly image resources.
pixabay	Find and share outstanding free images.
Unsplash	Free (do whatever you want) hi-resolution photos.
wellcome images	creative commons licensed images, mainly science-related
Wikimedia	Images and video from Wikipedia.
Xked	Comics, CC BY NC

Unisa Institutional Repository

Library



About the Library

Our library boasts over 2.7 million items and supports Unisa staff and students in teaching and research. We subscribe to an increasing number of electronic journals and electronic books that are available to students and staff online at any time.

[Read more](#)

Library Announcements

Certificate error message when accessing the library

If you encounter a privacy or server certificate error when login in or accessing various library links and resources please [click here](#) for instructions on how to bypass this temporary problem.

Westlaw databases

Please use Internet Explorer (IE) to access the Westlaw database from the [Find e-resources](#) list of databases. You will encounter problems if you access the database via any other browser. For more information please [click here](#).

Library services

- [Lending services](#)
- [Training](#)
- [Request a Literature search](#)
- [Research support](#)
- [Archival collections](#)

Search the Library

- [Search the catalogue](#)
- [Find e-resources](#)
- [Find e-reserves & Recommended books](#)
- [Find e-journals](#)
- [Unisa Institutional Repository](#)
- [Unisa Digital Archive](#)

[Login to MyLibrary](#)

[Branch locator](#)

[Membership](#)

[Library guides](#)

[Ask a librarian](#)

Search the Library

- [Search the catalogue](#)
- [Find e-resources](#)
- [Find e-reserves & Recommended books](#)
- [Find e-journals](#)
- [Unisa Institutional Repository](#)
- [Unisa Digital Archive](#)

Welcome to the Unisa Institutional Repository (UnisaIR), an open digital archive of scholarly intellectual and research outputs of the University of South Africa. The UnisaIR contains and preserves theses and dissertations, research articles, conference papers, rare and special materials and many other digital assets.

Communities in UnisaIR

Select a community to browse its collections.

- [Archives and Special Collections](#) [3085]
- [Archives \(Inventories\)](#) [44]
- [College of Accounting Sciences](#) [136]
- [College of Agriculture and Environmental Sciences](#) [381]
- [College of Economic and Management Sciences](#) [1684]
- [College of Education](#) [1786]
- [College of Graduate Studies](#) [435]
- [College of Human Sciences](#) [5330]
- [College of Law](#) [806]
- [College of Science, Engineering and Technology](#) [790]
- [Electronic Theses and Dissertations](#) [8053]
- [Globethics.net South Africa \(GE-SA\)](#) [626]
- [Graduate School for Business Leadership](#) [401]
- [Harvested](#) [0]
- [ODL \(Open Distance Learning\)](#) [333]
- [Phronimon \(Journal of the South African Society for Greek Philosophy and the Humanities \(SASGPH\)\)](#) [36]
- [ResearchDB](#) [1]
- [Transformative Curriculum for the College of Law](#) [3]
- [Tuition and Facilitation of Learning](#) [20]
- [Unisa Council and Executive Management](#) [54]
- [Unisa Department of Institutional Statistics and Analysis \(DISA\)](#) [15]
- [Unisa Inaugural Lectures](#) [87]
- [UnisaIR Guidelines, Tutorials and Resources](#) [5]
- [Unisa Library](#) [250]
- [Unisa Open \(Open Education Resources\)](#) [9]
- [Unisa Press](#) [171]
- [Unisa Quality Community](#) [2]
- [Unisa Research and Quality](#) [10707]

Search UnisaIR

Browse

- All of UnisaIR
 - [Communities & Collections](#)
 - [By Issue Date](#)
 - [Authors](#)
 - [Titles](#)
 - [Subjects](#)
 - [Advisor](#)
 - [Type](#)

My Account

- [Login](#)
- [Register](#)

Discover

- Author
 - [Matthews, Zacharia Keodirelang](#) (389)
 - [Marivate, D. C.](#) (113)
 - [Mishra, A.K.](#) (96)
 - [Prinsloo, Paul](#) (89)
 - [Ehlers, V.J.](#) (86)
 - [Coetzee, Melinde](#) (82)
 - [Martins, Nico](#) (70)
 - [Onyancha, Omwoyo Bosire](#) (67)
 - [Steyn, G.M.](#) (66)
 - [Dames, Gordon Ernest](#) (55)
 - [... View More](#)
- Subject
 - [South Africa](#) (364)
 - [United Party](#) (219)
 - [Qualitative research](#) (174)
 - [Education](#) (167)

Unisa Open (Open Education Resources)

Browse by

- [By Issue Date](#)
- [Authors](#)
- [Titles](#)
- [Subjects](#)
- [Advisor](#)
- [Type](#)

Search within this community and its collections:

Go



[Navigate to Unisa Open for Open Education Resources](#)

Over the last few years, Unisa has committed to making sense of the new opportunities and challenges presented by Open Educational Resources (OERs). Having lived through many changes to the shape of education, Unisa is no stranger to new forms of thought and we have not simply followed the OER momentum. An overwhelming amount of information about OERs is available on the internet. Finding the right OER which is of the quality you require, however often proves a challenge. This website aims to provide you with some route markers to find the resources that suit your needs.

Collections in this community

- [Publications \(Open Education Resources\) \[9\]](#)
- [Unisa Images \[0\]](#)
Openly licensed, freely downloadable images
- [Unisa Open Teaching and Learning Materials \[0\]](#)
Openly licensed Unisa teaching and learning materials
- [Unisa Other Open Resources \[0\]](#)
Resources available for downloading that are not images or teaching materials

African & SA OER initiatives

African OER initiatives

This section highlights OER on the African continent. There are far fewer OER based in Africa, than what is found internationally. This section only relates to resources found in Africa, excluding South Africa which is dealt with later. This section will list some of the OER based in Africa, followed by a section highlighting some of the African-based Free and Open-Source Software (FOSS) associations and organisations based in Africa.

- Higher Education Institutions involved in OER
- OER Africa Projects
- OER initiatives
- Free and Open-Source Software

South African OER initiatives

Although use of OER takes place in South Africa, there are still few contributors to OER from South Africa. Some South African institutions have already been mentioned as participants in OER Africa projects with the support of the South African Institute for Distance Education (SAIDE):

- University of Cape Town
- University of the Western Cape
- University of the Free State
- Free State School of Nursing
- Central University of Technology

Other South African located OER are mentioned in the following section. This is followed by a section on Higher Education Institutions with Open Access Repositories in South Africa.

- Higher Education Institutions contributing to OER
- Higher Education Institutions with institutional repositories
- Other OER
- OER Research

OpenUCT

<http://open.uct.ac.za/>

open.uct.ac.za UCT oER UCT LOGIN

OpenUCT

All content Search

Communities

Select a community to browse its collections

Centre for Higher Education Development



Are pre-compiled citation indexes of peer-reviewed journals an adequate control for research quality? A case study of library and information science

Darch, Colin; Underwood, Peter G

[View more](#)

Faculty of Commerce



The impact of highly active antiretroviral treatment (HAART) on employment in Khayelitsha

Coetzee, Celeste

[View more](#)

Faculty of Engineering & Built Environment



Laccase-mediated oxidation of totarol

Ncanana, Sandile; Baratto, Lara

[View more](#)

Faculty of Health Sciences



Faculty of Humanities



Faculty of Law



News

AXA awards first research chair in Africa to UCT

2016-11-15 Climate Science ...

[Read more](#)

Findings and Reflections from 2016 CIRCLE Visiting Fellows

Date: 29 November 2016 - 1:00pm to 2:00pm Venue: ACDI Meeting Room, 6th Floor Geological S...

[Read more](#)

Interannual to interdecadal variability of winter and summer southern African rainfall, and their teleconnections

2016-11-07 Climate Science ...

[Read more](#)

Discover

Author

Butterworth, Doug S (574)

Vector component simulation

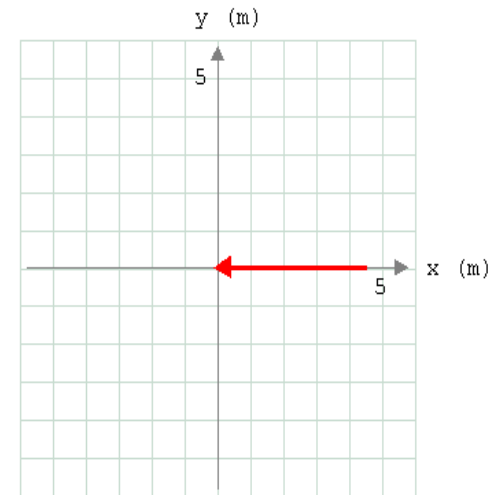
A set of simulations allowing students to acquire basic physics skills.

Vector Components - Main Frame

A: vector magnitude A_x : x-component A_y : y-component

θ : polar angle measured anti-clockwise from +x-axis

Display Component Vectors



Generate Another Displacement Vector

Test Your Skills

Vector Components - Instruction Frame

Shown in bold red is a displacement vector **A** that you can resize or drag about the co-ordinate system. See the effect that resizing and dragging has on it's magnitude **A**, polar angle θ and components A_x & A_y . Instead of dragging and resizing the vector, the simulation can randomly generate different vectors for you.

Once you're confident you can calculate the displayed properties of the vector, take the test!



This resource is licensed under a Creative Commons Attribution license.

$A = 4.5$ m

$A_x = -4.5$ m

$A_y = 0$ m

$\theta = 180$ deg

University of Western Cape

The screenshot shows a mobile browser interface on an iPad. The browser's address bar displays several tabs, with the active one being 'University of the Western Cape - S...'. The website header features the 'Soih' logo on the left, the text 'University of the Western Cape School of Public Health' in the center, and the official university crest on the right. A navigation menu below the header includes links for HOME, ABOUT, NEWS, ACADEMIC PROGRAMMES, SHORT COURSES, RESOURCES, and CONTACT US. The main content area is titled 'Repository of Open Education Resources in Public Health'. It contains two paragraphs of text explaining the university's commitment to sharing resources and building a network for public health education in Africa and the global South. The first paragraph mentions collaborations with OER Health, WHO Masters Program, and CHEPSAA. The second paragraph details the development of distance learning modules since 2000. To the right of the main text are two sidebars. The first sidebar, 'Open Education Resources by Level', lists three links: 'Masters in Public Health Modules', 'Postgraduate Diploma in Public Health Modules', and 'Postgraduate Certificate in Public Health Modules'. The second sidebar, 'Open Education Resources by Focus', lists seven categories: 'Health Workforce Development', 'Health Management', 'Health Promotion', 'Public Health Nutrition', and 'Teaching and Learning Resources'. At the bottom left of the main content area, there is a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 license logo and text.

12:04 94%

University of the Western Cape School of Public Health

HOME ABOUT NEWS ACADEMIC PROGRAMMES SHORT COURSES RESOURCES CONTACT US

Repository of Open Education Resources in Public Health

As part of our undertaking to share our resources and expertise and to build the network for public health education in Africa and the global South, we have been part of collaborations whose collective aim is growing the Open Education Resources movement – which aims to make education resources freely available on the web. Our efforts in this regard have been strengthened by our participation in collaborative networks like OER Health, a WHO Masters Program focusing on Health Workforce Development, the Consortium for Health Policy and Systems Analysis in Africa (CHEPSAA), and OER Africa.

As part of these collaborations, we lodged as Open Education Resources several of our distance learning modules and case studies as OER resources, which we have been developing since 2000 for the Master of Public Health, Postgraduate Diploma and Postgraduate Certificate in Public Health. Each module is delivered face to face and as a text-based module, with accompanying readings, prescribed readings, and some multimedia learning objects. Only the Module Guides are available here. This is a space to make our resources available to our students and other interested institutions and individuals.

 Content on this site is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0.

Open Education Resources by Level

- [Masters in Public Health Modules](#)
- [Postgraduate Diploma in Public Health Modules](#)
- [Postgraduate Certificate in Public Health Modules](#)

Open Education Resources by Focus



- Health Workforce Development
- Health Management
- Health Promotion
- Public Health Nutrition
- Teaching and Learning Resources

Need more information?

- The Centre for Professional Development has Road Shows to talk to you
 - Staff meetings, etc
- CPD has f2f workshop
 - 1-2 days, depending on your needs
 - Finding OERs, search tips, etc
- CPD has “Intro to OERs” free online course
 - 5-6 weeks long
 - What are OERs,
 - Finding them, mixing them
 - Licensing your OERs

Attribution

- Slides were adapted from:

- [Open Educational Resources \(OER\) Strategy: 2017-2021, compiled by Dr Willa Louw, CPD, Feb 2017](#)
- [OER Challenges and Barriers, Kerry de Hart, 27 August 2015](#) 
- [http://www.slideshare.net/GlendaCox1/openness-and-higher-education](#) 
- [https://www.slideshare.net/GlendaCox1/open-education-at-uct-2016?qid=644318c0-2ade-48e2-825a-ca4ca7e019ad&v=&b=&from_search=2](#) 