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Print Versus Electronic Reading Preferences in South Africa: a Case Study at Three South African Universities

**ECIL 2017, Saint Malo
19 – 21 September 2017**



Overview

- Background to ARFIS
- SA participants
- Presentation of selected data
 - Quantitative
 - Comparison of three universities
 - Comparison of three UP groups
 - Qualitative
 - Limited, no detailed analysis
- Conclusions

Background to ARFIS

- “Academic Reading Format International Study”
 - Started by Diane Mizrachi at UCLA in 2014
 - Current coordinators Diane Mizrachi, Joumana Boustany and Serap Kurbanoglu
 - Standardised questionnaire
- 32 countries and counting
- Details of project at <http://arfis.co/>
 - Full list of ARFIS publications
 - Extended bibliography

Questionnaire

- Six demographic questions
- 17 Likert-style statements on academic reading behaviours and preferences
- All questions include a box for optional comments
- An open prompt for any further information

SA participants

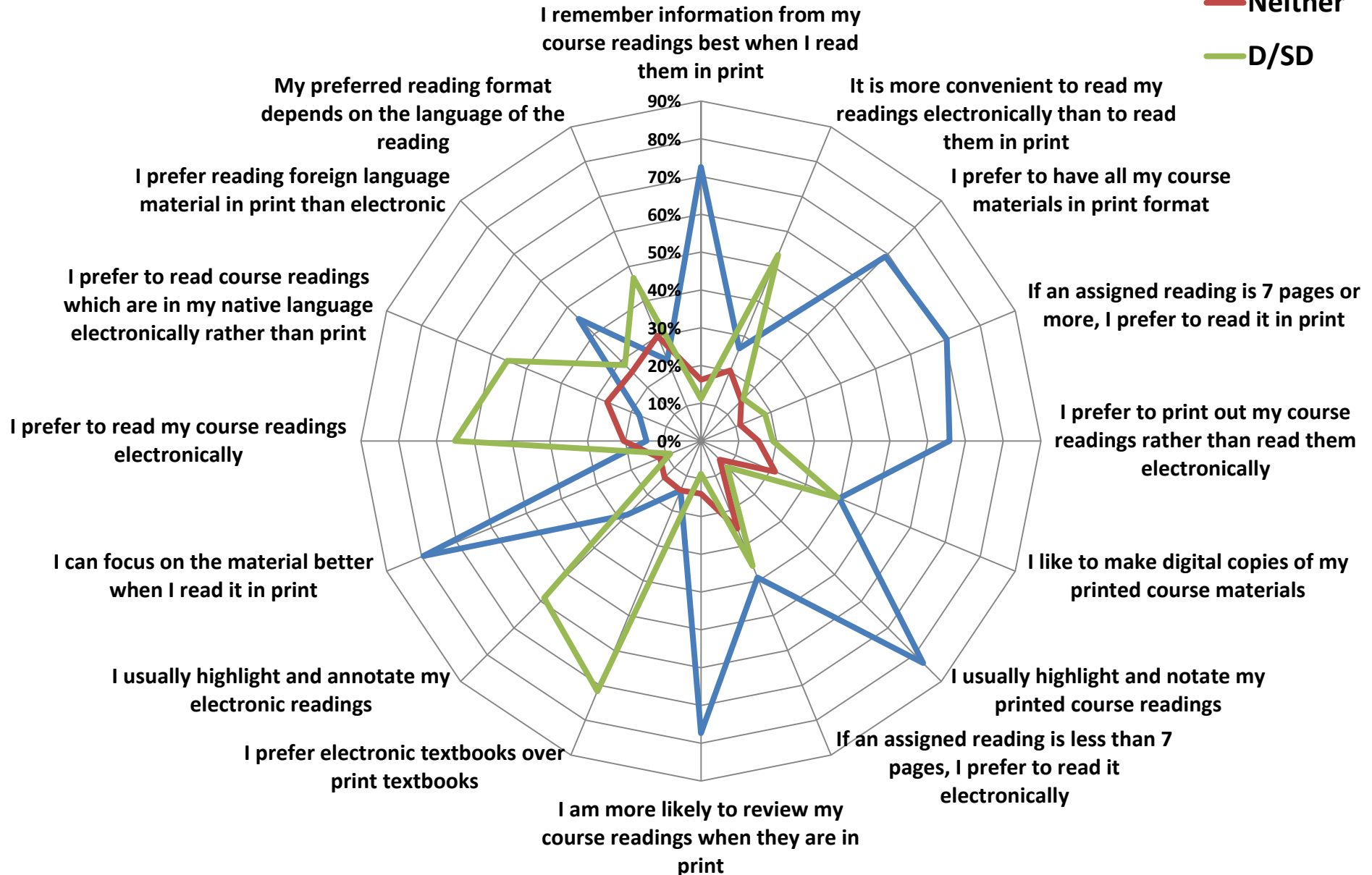
- University of Pretoria (UP)
 - City residential university
 - 55,000 students
- University of South Africa (UNISA)
 - Distance education university
 - 450,000 students
- University of Zululand (UniZulu)
 - Rural residential university
 - 16,000 students

Respondents

- University of Pretoria
 - Three groups
 - First-year students that do a compulsory computer/information literacy module (who have only e-books as course materials)
 - 2,941 valid responses
 - Undergraduate students from the Department of Information Science (years 2 and 3)
 - 208 valid responses
 - Postgraduate – Honours (year 4), Masters and doctoral
 - 79 valid responses
- University of South Africa
 - Students doing a module on “Developing information skills for lifelong learning” (typically years 3 and 4)
 - 70 responses
 - Between 25 and 40+ years old
- University of Zululand
 - Two groups
 - Humanities undergraduate
 - DIS undergraduate and postgraduate
 - 20 responses and on-going – logistical problems

Univ. of Pretoria

— SA/A
— Neither
— D/SD

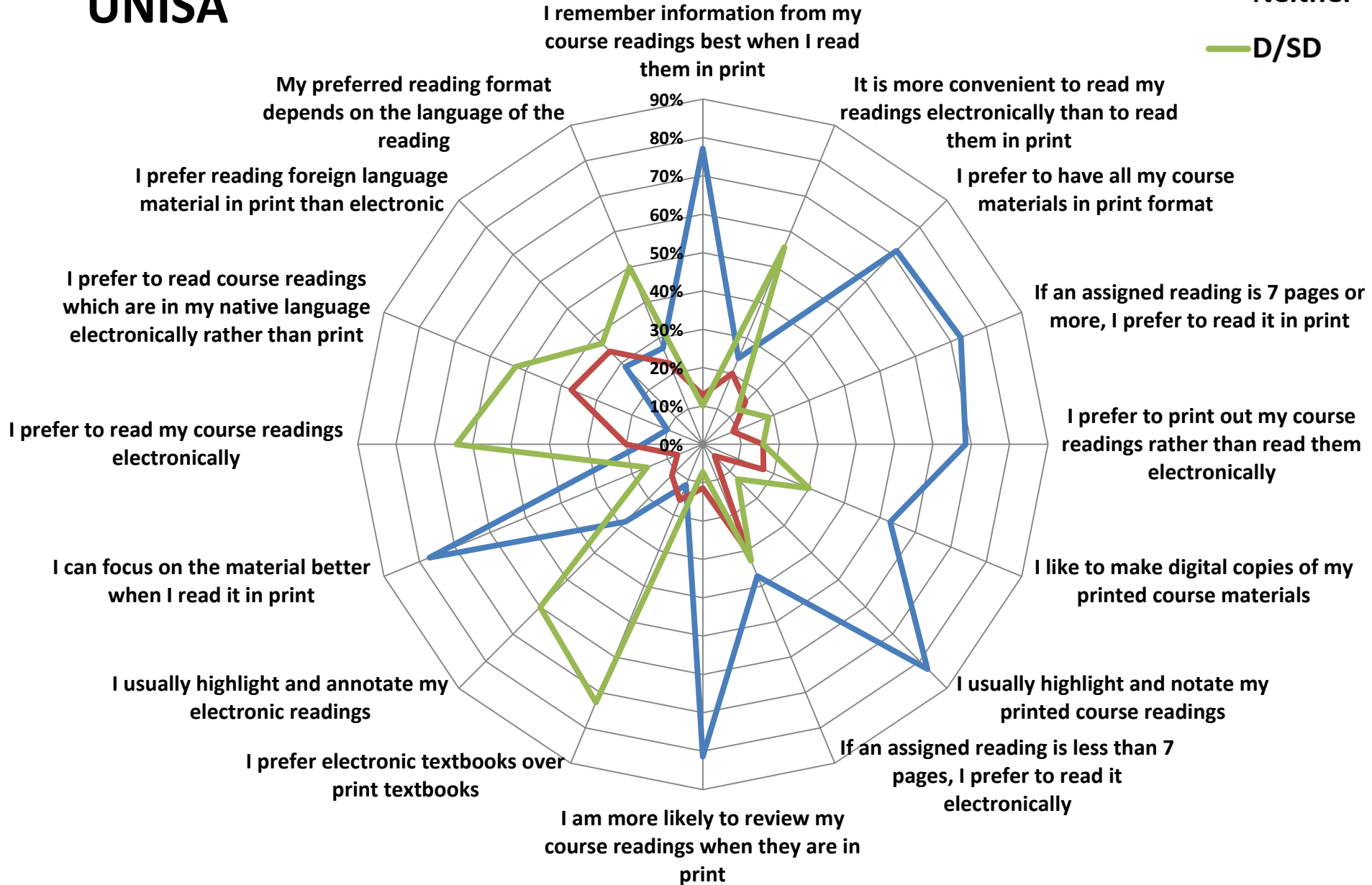


UNISA

— SA/A

— Neither

— D/SD

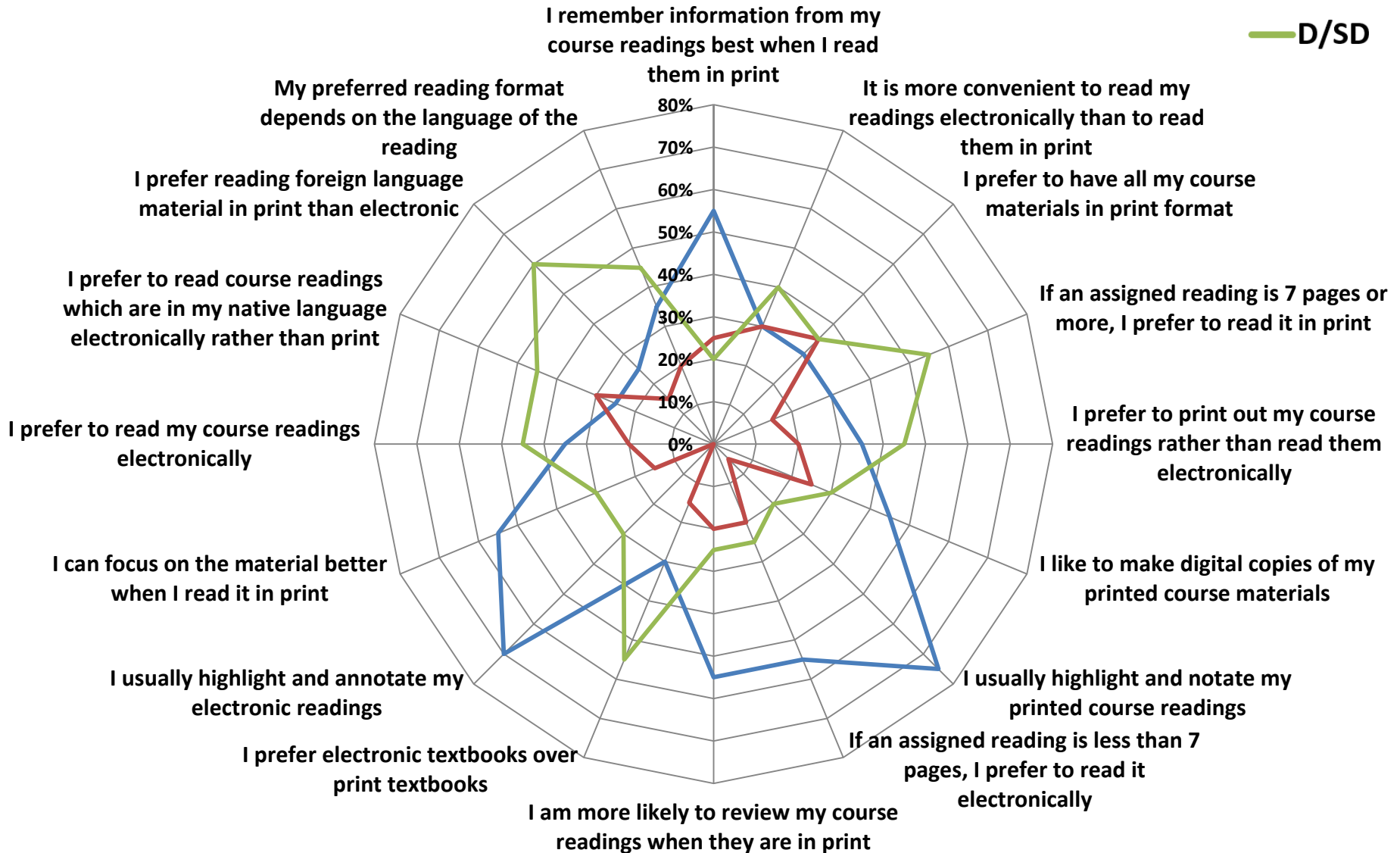


UniZulu

— SA/A

— Neither

— D/SD



Comparison – SA/A (1)

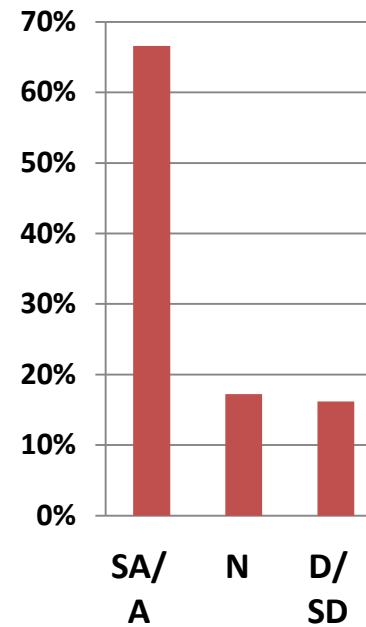
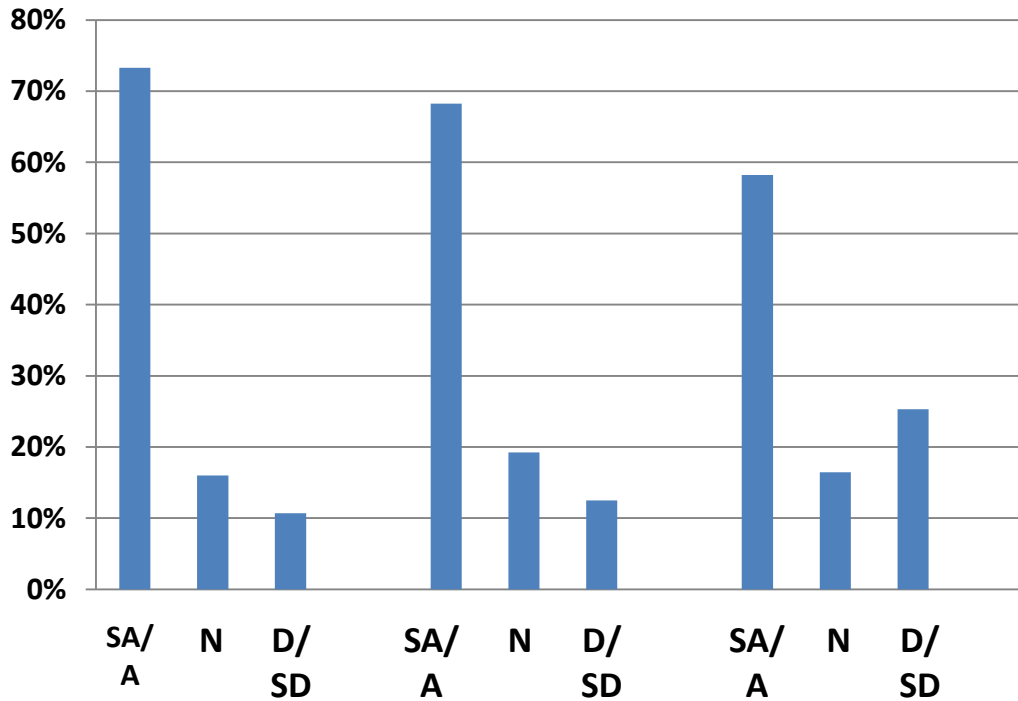
	I remember information from my course readings best when I read them in print	It is more convenient to read my readings electronically than to read them in print	I prefer to have all my course materials in print format	If an assigned reading is 7 pages or more, I prefer to read it in print	I prefer to print out my course readings rather than read them electronically	I like to make digital copies of my printed course materials	I usually highlight and notate my printed course readings	If an assigned reading is less than 7 pages, I prefer to read it electronically
UP	73%	26%	69%	70%	66%	40%	83%	39%
UNISA	77%	24%	71%	73%	69%	53%	83%	37%
UniZulu	55%	30%	30%	30%	35%	45%	75%	55%

Comparison – SA/A (2)

	I am more likely to review my course readings when they are in print	I prefer electronic textbooks over print textbooks	I usually highlight and annotate my electronic readings	I can focus on the material better when I read it in print	I prefer to read my course readings electronically	I prefer to read course readings which are in my native language electronically rather than print	I prefer reading foreign language material in print rather than electronically	My preferred reading format depends on the language of the reading
UP	77%	14%	28%	80%	14%	18%	46%	23%
UNISA	81%	11%	29%	77%	16%	10%	29%	27%
UniZulu	55%	30%	70%	55%	35%	25%	25%	35%

UP:

I remember information from my course readings best when I read them from printed pages



AIM (1st y)

IS - undergrad

IS - postgrad

All

Pro paper

- **UP**

- I can highlight, make notes on them and basically personalize to suit me.
- I have always found studying from printed papers to deliver the best results, thus I print all online sources and notes.
- The screen is so tiring and less flexible. On the paper I can highlight and write my own summaries, and I am able to move at a faster pace.
- [...] I can go back and forth between pages quickly, and I can make notes.
- I hate studying from the computer.
- “LONG LIVE THE HARD-COPY!!!!!!!!!!”

- **UNISA**

- In print it is easier to highlight, mark pages, tick from pages, make notes and side-notes, add color, summarise and annotate.
- It is less time consuming to locate information and easier to refer back and to find information in printed material.
- It is difficult to see the structure while scrolling through the information.
- One can access print even when there is no electricity or internet is down.
- I cannot focus for long hours [...] and it is tiring and strenuous for the eyes.

- **UniZulu**

- It much easier when I read a printed format because electronic end up causing headache and eye problem.
- I prefer reading on a printed format, for me it is easier.

Pro e

- **UP**

- Printed resources do not allow me to do a quick word search on the material, and that often frustrates me when I have to re-visit particular study concepts.
- In terms of remembrance, what aids me most are the markups and comments I write while reading along. [...] flexibility of markup and so I am able to form a mental picture of important concepts [...]. I prefer electronic due to ease of access, integration in assignments and reference management software.

- **UNISA**

- One remembers and concentrates better when reading electronically.

- **UniZulu**

- [...] because it saves time and effort, as long as I have access to the internet I am then able to do my work accordingly. Instead of carrying books and printed article, I simple carry my external drive.
- [...] because I can easily access it any time and I can share it.
- For someone who lives in this day and age, the electronic format is more ideal in most situations.

Either

- **UP**

- It does not matter which format the information is in, as long as I understand and take notes I am bound to remember the information.
- I personally like reading from both.
- I remember equally well from printed and e-resources.
- Although I remember best from printed sources, I don't mind reading electronic copies.
- I like reading so where I read the information from really does not make a difference.

- **UNISA**

- It makes no difference and I read print or electronically with the same ease.
- I can relate to both formats.

- **UniZulu**

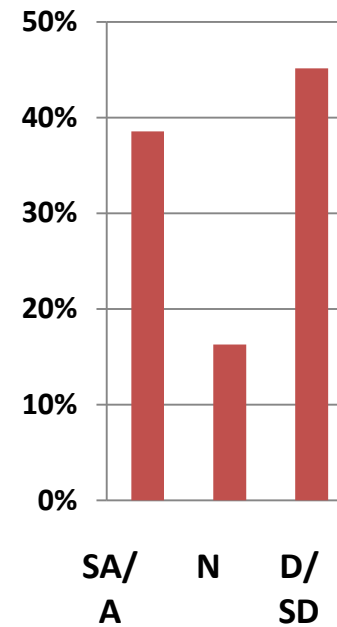
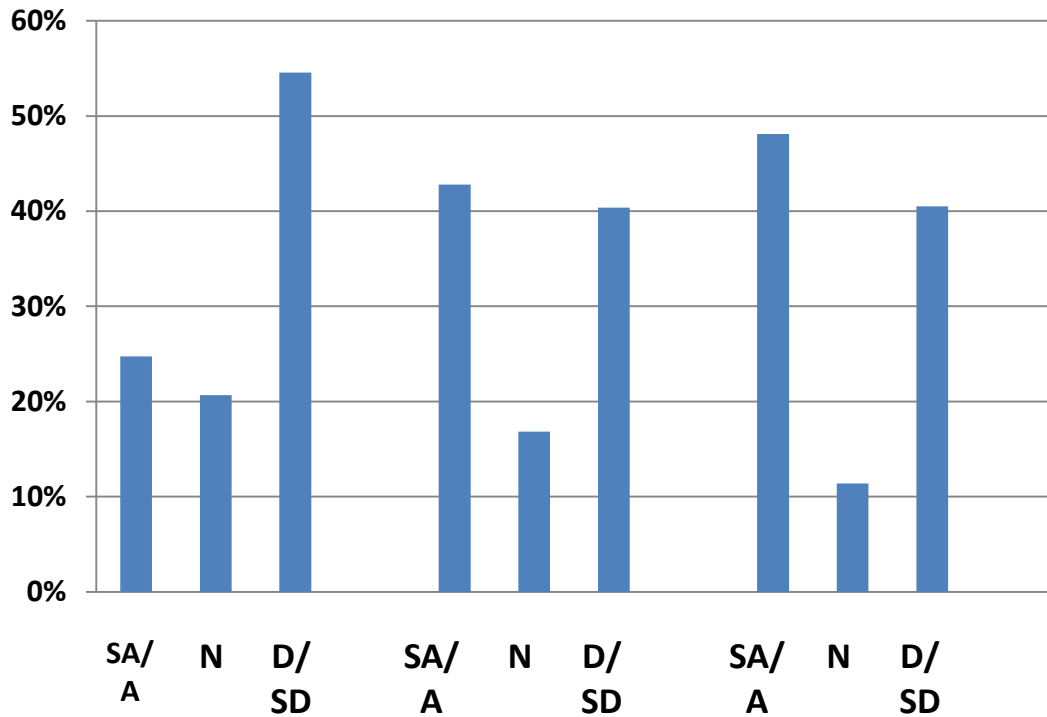
- I prefer reading both in electronic and print format because the information is still the same no matter the format.

Summary

- Pro paper
 - Easy to remember, get mental picture etc.
 - Easier, for making notes, high-lighting etc.
 - E-reading is strenuous
 - Don't like computers
 - Unreliable internet and electricity access
- Pro e
 - Easy to remember, get mental picture etc.
 - Additional functionalities, e.g. making notes, high-lighting, search, integration etc.
 - “In this day and age...”
- Either
 - I like reading and the format doesn't matter
 - As long as I understand the material

UP:

It is more convenient to read my assigned readings electronically than to read them in print



AIM (1st y)

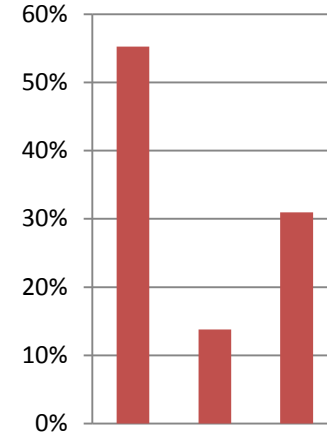
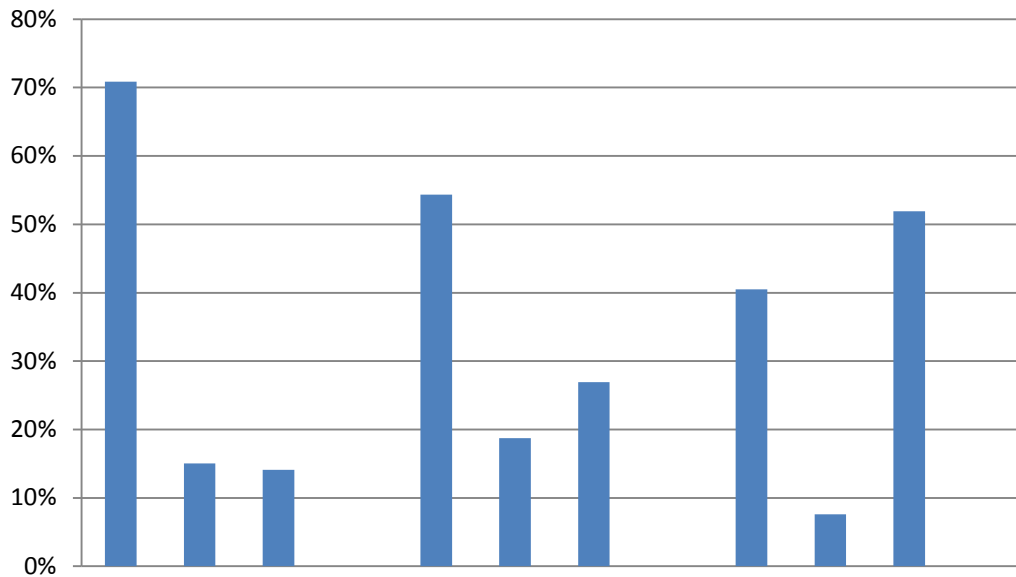
IS - undergrad

IS - postgrad

All

UP:

I prefer to have all my course materials in print format (e.g. book, course reader, handouts)



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AIM (1st y)

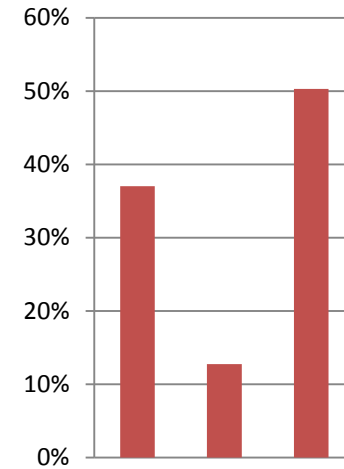
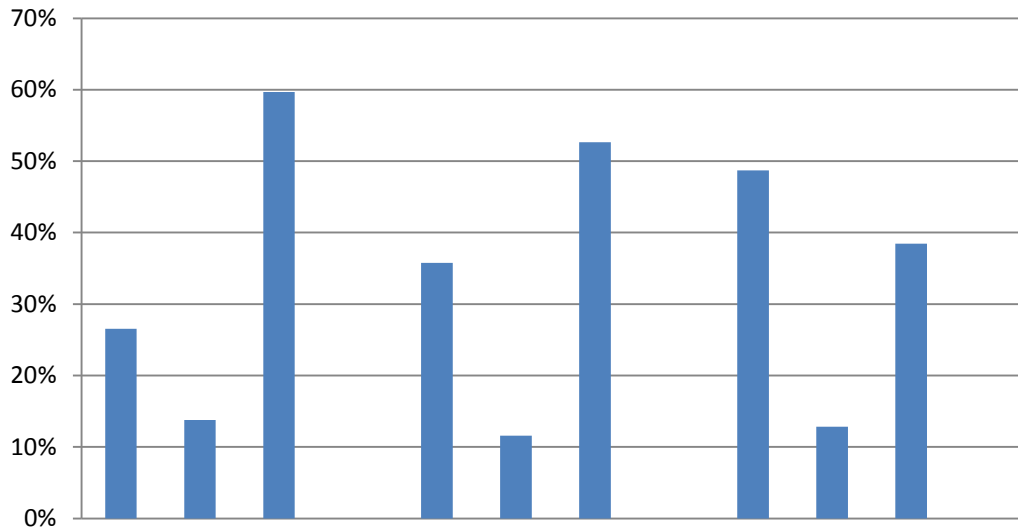
IS - undergrad

IS - postgrad

All

UP:

I prefer electronic textbooks over print textbooks



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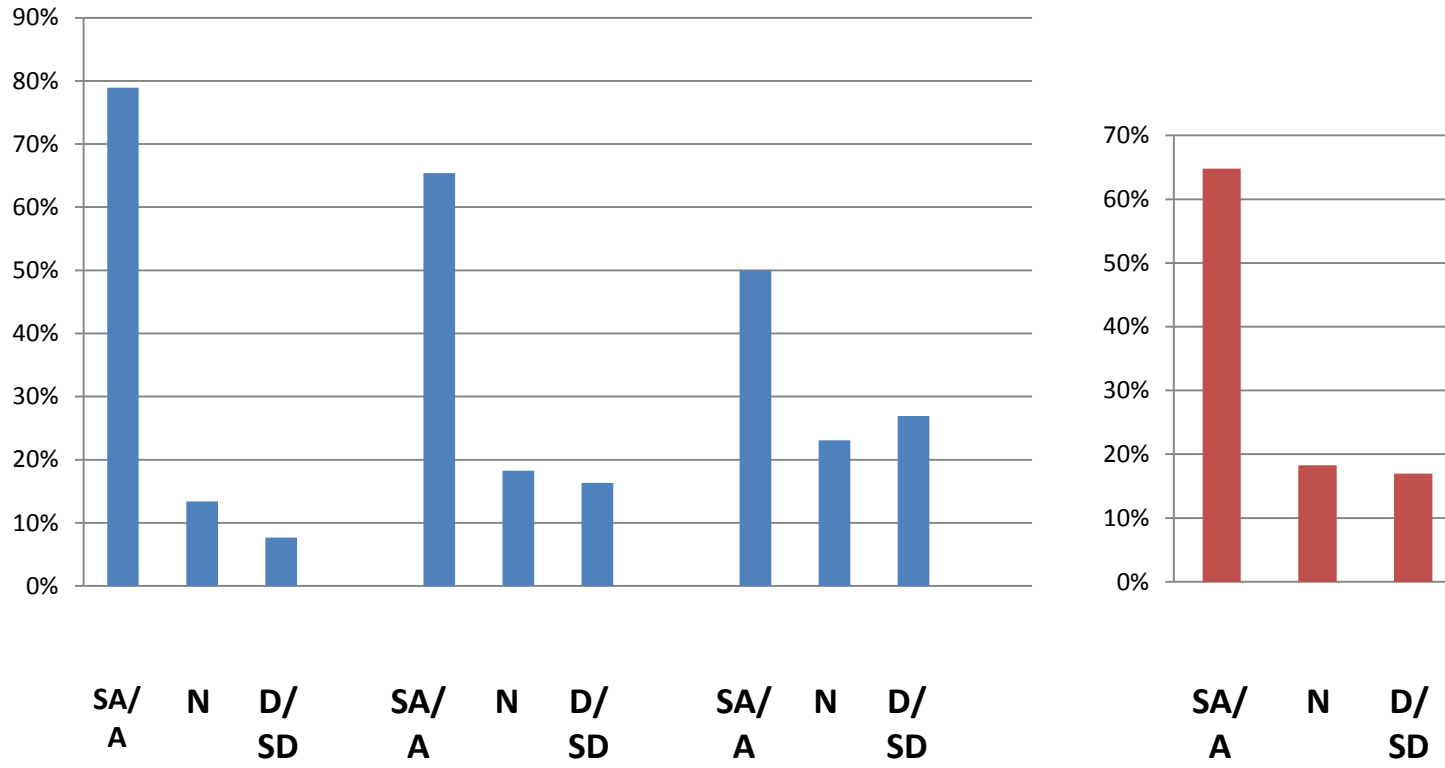
AIM (1st y)

IS - undergrad

IS - postgrad

All

I am more likely to review my course readings (after I've read them at least once) when they are in print



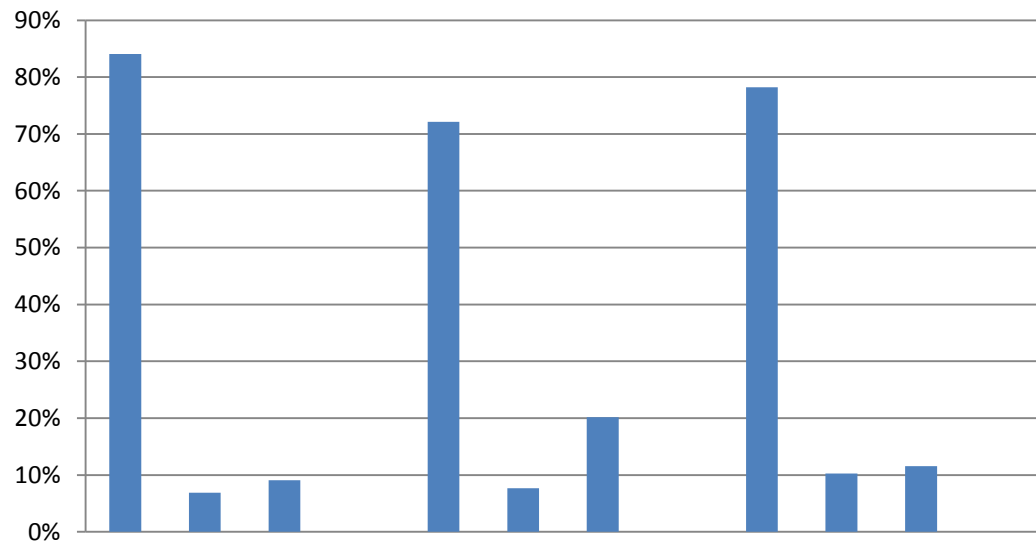
AIM (1st y)

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All

I usually highlight and notate my printed course readings



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AIM (1st y)

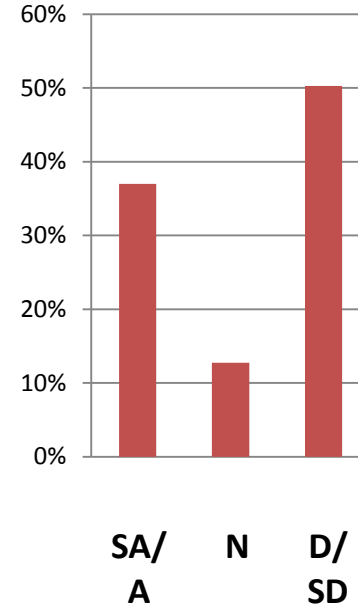
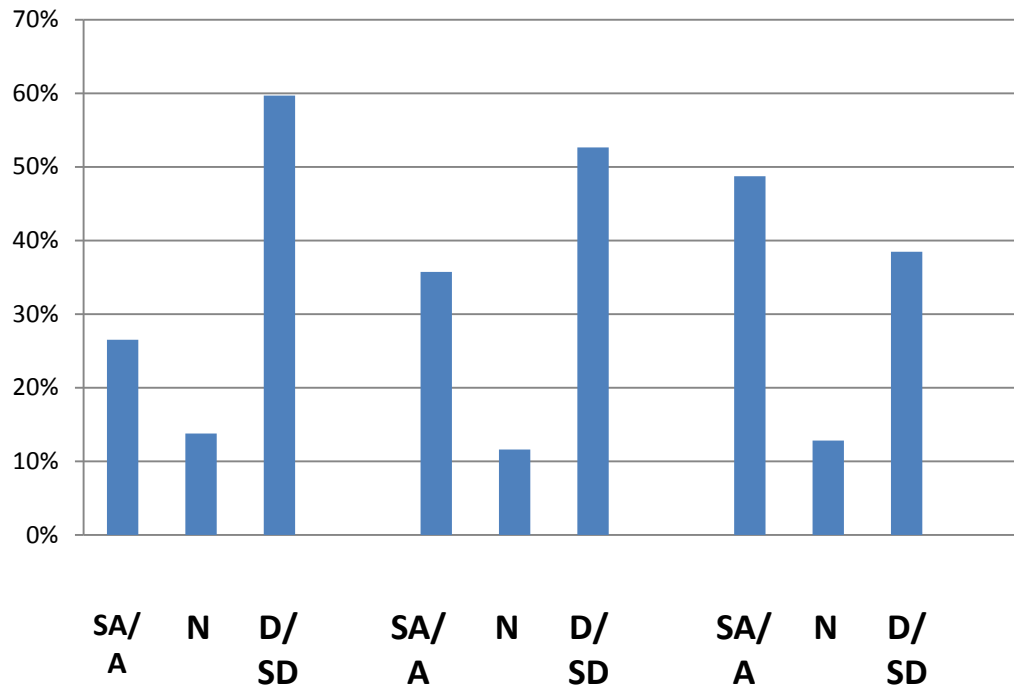
IS - undergrad

IS - postgrad

All

UP:

I usually highlight and annotate my electronic readings



AIM (1st y) IS - undergrad IS - postgrad All

Comments

- In general, strong preference for print
 - Correlates with most other country reports
 - UniZulu notable exception – number of respondents?
- Limited difference between junior and senior students
- Limited difference between residential and distance education students
- Preference for electronic format increases with seniority (postgraduates)

Conclusion

- First report from South Africa (and Africa?)
- More detailed analyses are required
 - All questions
 - All enriched by qualitative comments
 - Comparisons of gender and age differences, as well as gender with age
 - Addition of more data from UniZulu
- Detailed comparison with other studies is required
- To be published in 2018

Thank you!
Questions / comments?

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