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	Organization/University	University of Johannesburg	
	City	Johannesburg	
	Country	South Africa	
	Email	mkarodia@uj.ac.za	
	Email mkarodia@uj.ac.za The curriculum for accounting students is evolving to meet advancement in computer technology. To keep up with current concepts, the curriculum needs to have more depth with specific reference to technology, to facilitate the learning and development of students. This study aimed to explore how the implementation of technology can assist in assessing the students doing the diploma course in accounting. Secondary research methods such as books, peer-reviewed journals, magazines, newspapers and Internet resources were used to collect data and establish how technological advancement facilitates all features of professional accounting, thereby adding to the success of an organisation. Limited research on the use of technology in accounting warrants universities in South Africa to rethink the traditional learning model. The teaching of accounting has shifted from being teacher-centred to student-centred; the technological change in the teaching of accounting has also changed the culture of educational institutions. Students are being assessed on their theoretical as well as on their practical knowledge. For example, both the theoretical and practical knowledge of students are evaluated by requiring them to process transactions in a fictitious firm that they create. Students are also required to create a business plan and use software such as Microsoft Excel and Sage Pastel. While the study was based in South Africa, the findings of the study and the use of technology in accounting education could be utilised		
Keywords (separated by " - ")	Accounting education - Computer technology - Teaching and learning - Student assessment		

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AUTHOR QUERIES

[AUI] The Importance and Implementation of Technology for Diploma Accounting Students at the University of Johannesburg

[AU2] Mohamed Karodia

Abstract The curriculum for accounting students is evolving to meet advancement 5 in computer technology. To keep up with current concepts, the curriculum needs to 6 have more depth with specific reference to technology, to facilitate the learning and 7 development of students. This study aimed to explore how the implementation of 8 technology can assist in assessing the students doing the diploma course in accountq ing. Secondary research methods such as books, peer-reviewed journals, magazines, 10 newspapers and Internet resources were used to collect data and establish how tech-11 nological advancement facilitates all features of professional accounting, thereby 12 adding to the success of an organisation. Limited research on the use of technology 13 in accounting warrants universities in South Africa to rethink the traditional learn-14 ing model. The teaching of accounting has shifted from being teacher-centred to 15 student-centred; the technological change in the teaching of accounting has also 16 changed the culture of educational institutions. Students are being assessed on their 17 theoretical as well as on their practical knowledge. For example, both the theoretical 18 and practical knowledge of students are evaluated by requiring them to process 19 transactions in a fictitious firm that they create. Students are also required to create 20 a business plan and use software such as Microsoft Excel and Sage Pastel. While the 21 study was based in South Africa, the findings of the study and the use of technology 22 in accounting education could be utilised globally. 23

Keywords Accounting education • Computer technology • Teaching and learning • 24 Student assessment 25

1 Introduction

The accounting profession has changed rapidly over the past 50 years. These 27 changes made it imperative for educational institutions to focus on developing vari-28 ous methods to meet the high standards posed by this growing field. As a result, the 29

M. Karodia (🖂)

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University of Johannesburg, Johannesburg, South Africa e-mail: mkarodia@uj.ac.za

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functions of accounting that are used by the different institutions have becomeincreasingly complex.

The advancement in technology has successfully enhanced all the demands of professional accounting, and educational programmes are challenged to equip graduates to meet the demands of the profession, thereby affording them the opportunity to find employment in both public and private accounting firms. Various institutions have also endeavoured to include different software packages into their curriculum to assess the students (Martinez et al. 2012).

Technology can no longer be ignored at this point in time of our lives. Truly,
technology is and has been incorporated into and has shaped our society. Technology
affects numerous components and institutions of the society including education.
Thereby, accounting education is neither exempt nor immune to its effects.
Integration and inclusion of technology to accounting education facilitates learning
within the accounting learners rather than hindering it (Iniesta-Bonillo et al. 2013).
However, inclusion and integration of technology into accounting education has

faced several challenges from the people involved in it to the institutions that com-45 prise such a sector of education. Most of the write-ups and research have been 46 focused on the teacher who needs to have and/or be equipped with knowledge in 47 technology as well as the acceptance and readiness of the accounting students 48 towards technology integration as well as on the digital division that technology 49 might do to the society. However, all of such challenges have been answered already 50 or continuously answered wherein most scholars agreed that technology does have 51 more beneficial effects than bad ones. Seldom focused on the curriculum develop-[A**52**] ment of the accounting education, it is one of the vital factors to which the teachers 53 and accounting students have and are basing their pedagogies and learning 54 (Kinyondo et al. 2012). 55

This paper discusses how technology can be incorporated into the accounting curricula of educational institutions, and emphasis is placed on how various institutions have implemented technology in the assessment of students. Recommendations are made on how the University of Johannesburg can implement accounting software packages and technology to assess the students at that university.

61 2 Problem Statement

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62 Learners in the diploma accounting programme have a lack of ability to integrate

technology and accounting theory, and as a result, this impacts their ability to per-

64 form successfully in the workplace.

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3 **Research Objectives**

The aim of the study is to establish a comparative study to determine the impact 66 made on the accountancy professional. The intention is to determine whether the 67 changes made in accounting institutions are adopted and learned by the students and 68 to recommend that technology be used by accounting students at the University of 69 Johannesburg. The study was based on the past and the present data of other univer-70 sities, how technology was implemented by university students, and how technol-71 ogy was used to assess the students. 72

Research Questions 4

The study designed the following research questions:

- How does the computer technology affect the accounting curriculum in the 75 University of Johannesburg? 76
- How does the performance of the students improve with the use of computer 77 technology?
- What are the benefits of implementing various software packages and technol-79 ogy regarding assessment? 80

5 Methodology

The research was based on secondary data collection. The data was extracted from 82 various journals, articles and books. Secondary research described information 83 gathered through literature, publications, broadcast media and other non-human 84 sources. 85

The qualitative research method was used. Qualitative research is more subjec-86 tive than quantitative research and uses different methods to collect information 87 which could be both primary and secondary. As already mentioned, this study chose 88 the secondary method. 89

This type of research is often less costly than surveys and is extremely effective 90 in acquiring information. It is often the method of choice in instances where quan-91 titative measurement is not required. 92

The author used a deductive approach of logic and gathered data that contained 93 general information on the topic. Through this information, the author identified 94 specific themes of the study. 95

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Findings 6 96

6.1 Use of Technology in Education 97

In the past, technology was used to deliver direct instructions such as instructional 98 television and interactive radio, especially in low-income countries, and audio tapes 99 and photocopying machines were the main aids to learning (Kinyondo et al. 2012). 100 Today, education has expanded to include the Internet, email and the World Wide 101 Web. Many educators are at a distinct disadvantage, as many students are more 102 adept at using computers than they are. This situation does not only embarrass the 103 educator but also makes teaching less effective (Sánchez et al. 2013, p. 163).

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Role of Technology in Education 6.2 105

Technology encompasses the whole architecture of modern education, and account-106 ing is no exception. For instance, social media and distance learning not only make 107 it easier for students to study and learn accountancy, the online lecture and practical 108 application of the theory make it easier for the educator to teach and assess the stu-109 dents. In addition, the use of software such as Peachtree, QuickBooks, SPSS and 110 Microsoft Excel enables students to learn different time-saving and labour-saving 111 techniques. The shift from teacher-centred to student-centred learning has also revo-112 lutionised the way accounting is taught at all levels (Groot et al. 2013, p. 1286). 113 Before computers were plentiful, projectors and PowerPoint presentations were 114 used in class, and accounting transactions were recorded manually in business insti-115 tutions (Czerniewicz and Brown 2013, p. 44). 116

Literature Review 7 117

7.1 Circumstances of South Africa 118

Two studies were conducted recently on using technology to teach accountancy, one 119 in Spanish literature (Sanchez and Mateos 2010) and one in British literature 120 (Basioudis and de Lange 2009), but to date, no research has been done on the sub-121 ject in South Africa. 122

The interchange of ideas, products, etc., has led to economic and societal drivers 123 such as globalisation, societal change, technological advances and international 124 integration (Newby et al. 2011). These changes have forced universities throughout 125 the world, including South Africa, to rethink the model of traditional learning. The 126 advance in technology, in particular, has not only changed the teaching of accounting 127

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but has also changed the culture of educational institutions. Social media plays a 128 significant role in learning and teaching as well. 129

Accounting teachers need to be flexible; they have no choice but to welcome 130 technology into their classrooms and to equip themselves to provide their students 131 with the knowledge they need in the field of accounting (Sánchez et al. 2014, p. 75). 132 However, while technology and social media serve a variety of roles in education, 133 their primary role is to enable the students to learn. Therefore, educators need to be 134 selective in their choice of technology. 135

The department of commercial accounting at the University of Johannesburg is among the first internationally to provide courses that integrate the theory of accounting with software packages that are commonly used in business, including redit and banking programmes for management. Graduates are equipped to eventually use the software at their place of work while applying their knowledge of accounting (Bélanger et al. 2013, p. 20). 138

Since 2011, the accounting course at the University of Johannesburg has combined the theoretical with practical application using accounting packages such as Sage Pastel Evolution. The students create a fictitious company and then apply the theory that they learn to manage their company throughout the semester. In other words, the topic covered in the lecture on accounting theory is applied practically. 142

At first, the students found it difficult to answer questions on the integration of theory with the practical and they tended to isolate the two. This was overcome by asking the students to first record transactions manually before capturing them on the system. 150

The fictitious firm that the students create is an imitation of a real firm, and the transactions are similar to what they will encounter in a real firm. They record the initial transactions from the source documents right through to the analysis and final preparation and interpretation of the statements (Lundgren and Robertson 2013, p. 1406). The students therefore are able to understand what running a business

entails and are made ready to work in an organisation.

7.2 Technology and Assessment

Technology and social media were used not only to teach the students but also to assess them. Students are assessed on two levels. They are required to submit two portfolios including printouts of the documents and transactions that they processed during the classes on practical accounting. From this, the educator is able to assess whether the students can process transactions based on the theory they have learned. The fruits of this programme will be seen next year when the first batch of students graduate and enter the workplace. 159 160 161 162 163 164

The traditional way of assessment was based on two tests and an examination; 165 different questions assessed the ability of the student to record transactions manually and on how they integrated these transactions with Pastel software. The students 167

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were usually given snapshots of Pastel transactions and documents, and questionswere based on the snapshots.

The challenges faced by the accounting department at the University of Johannesburg were similar to those faced by most educational institutions, i.e. students who did not attend the practical accounting classes. As mentioned previously, it was important for students to attend both the practical and the theoretical classes so that they could understand and integrate the accounting theory with technology.

It is evident that the students who are exposed to the current accounting educational programme are better prepared for the workplace than those who were not exposed to the programme. Students who fare better in accounting theory should be motivated to raise their knowledge of technology to the same level. Educators must also keep up with the times and be creative in the use of available technological resources to enhance learning. There is an explicit need to integrate all modes of technology and social media into the environment of learning.

182 7.3 Integrating Accounting Curriculum

Hejazi et al. (2003) introduced an integrated accounting curriculum in SAP account-183 ing software and included the Enterprise Resource Planning (ERP) software pack-184 age. SAP is the global leader in ERP software. Almost 2,000 businesses and 185 educational institutions use SAP to manage and meet their need for information. 186 The key feature of SAP's R/3 software is its richness in configuring the system for 187 the extensive modification of programmes. The SAP is used by all the application 188 modules. SAP has been implemented in the course on management information 189 systems. SAP can also be used in different other courses such as operation manage-190 ment, which requires a junior level course. It also teaches students how resources 191 can be planned and organised together with the strategies of organisations (Grandzol 192 et al. 2010). 193

194 7.4 Software Packages

Information management includes marketing, sales production, logistic accounting and finance. ERP is also used to manage quality assurance and management. In finance, students are taught capital budgeting, time value of money and the relationship between risk and return. By using SAP, students have a better knowledge of quality management and can assess the feasibility of a project. It can also be used in marketing management and human resource administration.

In marketing, SAP can improve the decision-making skills of the students based on the sales and revenue data. The marketing and sales report can also enable students to declare relevant information about the customers, such as their addresses, names and the annual sales. Human resource students can also focus on administra-

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tion, planning, recruitments, selection and compensation. R/3 initiatives have made 205 improvements in the three programmes regarding technical support, continued 206 training of the technical support personnel and continued training. 207

Accounting professionals have to perform various tasks such as costing, recording, budgeting and financing. To meet these demands, the quality of education must be raised. According to Ainsworth (2001, pp. 279–297), to satisfy the needs of the accounting profession, accounting teaching techniques have changed considerably over the past few years. According to Martinez et al. (1994), the following standards must be met: 213

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- Accuracy
- · Fitness of purpose
- The goals of the organisation
- · The direct and indirect needs of the customer

In the past, accountants were required to only do bookkeeping, but today they 218 must be able to also do the costing of the product, auditing, taxation, etc. (Martinez 219 et al. 2012, p. 7303). 220

Integrating XBRL into the accounting curriculum is important. XBRL is an 221 extensible business reporting language required by 500 of the largest companies for 222 security and exchange commission filings and federal deposit institutions. As 223 accounting is a business language, it is used to disseminate and report construction. 224 XBRL is basically an interactive reporting language. Previously, the business 225 reports had only the basic components of the vernacular. 226

Today's fast-paced and technology-driven world with its demands for expediency prompts accounting professionals to place a premium on information which is easy to find. As XBRL is proficient in streamlining financial reports, it should be taught to students so help them understand financial reporting. 230

According to Saudagaran (1996), there is an increasing demand for highly qualified accountants because of the improvements in accounting education and the use of technology. Carl and Desmore (1988) find video conferencing effective in teaching accounting from a studio to distance students. The students are connected to the class via the Internet or telephone. Interactive television can also be used to teach accounting. 236

Little research has been done on how accounting students feel about distance 237 learning and tele-teaching. However, Seay and Milkman (1994) studied the performance of accounting students at junior level and their reaction to two-way Internet 239 technology (IT). According to this study, students at the remote site outperformed 240 students at the originating site. While the students at the remote site could not enrol 241 in the IT course, they could choose traditional instruction. 242

During the second semester of 1996, accounting lecturers at Monash University used a camera and a microphone to manage and maintain eye contact with students between the Gippsland and Berwick campuses. The lectures proceeded smoothly, but problems such as connection, time delay for material transmission and interaction with the students were experienced. Tele-teaching by a team of accountants was again introduced in 1999 based on 1.5 h, thus avoiding start-up time. Communication 248

between the students and educators was encouraged by different immediate ques-249 tions. The settings of the microphones and camera allowed the staff to focus on the 250 students who asked the question and transmit their image and sound to other sites. 251 The video and audio quality has improved to where there is no time delay. According 252 to Freeman and Tenant (1998), the evaluations were also used for developing tele-253 teaching in the year 1999. Benefits included greater equality assessment and learn-254 ing and increased interaction between the campuses. Disadvantage included 255 reduction in access to the lectures and the potential for increased unruly behaviour. 256 Tennant (1998) also found that students at remote sites could be included in the 257 lectures and that they experienced a reduced span of concentration. 258

The introduction to accounting, learning objectives and complexity of content is similar all over the world. A similar procedure for selecting the course as in the past year was followed so there was a similar group as far as features and characteristics were concerned. The lecturers for the sessions remained the same as the previous tele-teaching programme; therefore, the variables were constant except for the improved tele-teaching skills and better technology (Lundgren and Robertson 2013, p. 1406).

Quantitative and qualitative procedures were used to seek information from the students. Students provided responses regarding tele-teaching based on the different questions asked. From the findings, it was concluded that the staff required more remote sites, students were treated equally, tele-teaching was a fair technique that avoided lectures being repeated and tele-teaching allowed students to learn efficiently and provided interaction with the lecturers.

According to Wright and Chamlers (2010), professional accountants generally have poor communication skills but are able to provide appropriate quantitative outcomes for an organisation. Research is needed on how to best develop accountancy to improve the performance of firms. There are three major components for the profession of accounting, i.e. practice, research and policy. Education based on these accounting components can meet the requirements of South African organisations and institutions and its economy.

Currently, most South African institutions use different information technologies
 successfully to resolve their problems. Accountants are more capable than in the
 past to present appropriate accounting to external auditors.

282 8 Conclusion

While several studies have been done on incorporating technology in education and using technology to assess students generally, no research has been done in accounting in South Africa.

The advancement of technology has had a great impact on the field of accounting and had enabled accountants to contribute to the success of organisations. Universities throughout the world, including those in South Africa, have been forced to rethink the traditional teaching and learning model. Almost everywhere in the

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world, calculators, computers, Microsoft PowerPoint, projectors and Microsoft 290 Excel are used as teaching and learning tools and time-saving devices for students 291 as well as educators. Students are also taught online via distance education, and, 292 unlike face-to-face classes, students can review the lectures again and again. 293

Educational strategy based on newer technology has incorporated the Internet 294 and the World Wide Web to expand communication, have access to lecturers and 295 students and increase resources. These changes in technology have changed the role 296 of the educator. Technologies such as XBRL, SAP and SPSS save time and ulti-297 mately increase the efficiency of the students. To answer questions from the stu-298 dents, educators should fully equip themselves not only with accounting knowledge 299 but also in the use of technology, because students are generally more adept at using 300 computers and technology than the educators. 301

This paper briefly discussed the changes made in the field of accounting over the past few years and how these e-changes affect students of accounting. The paper also briefly discussed changes made in the field of accounting and the various ways in which technology can be adopted into the assessment of students. 305

South African universities, including the University of Johannesburg, should use 306 technology to assess accounting students and should implement software such as 307 SPSS, Microsoft Excel and Microsoft PowerPoint to enable the practical applica-308 tion of accounting theory. Developing business plans also allows students to estab-309 lish what cost is incurred to start up a new business and how the business can be 310 financed, i.e. it gives the students practical experience for starting up a new busi-311 ness. It is necessary for the students to manually record transactions before captur-312 ing them onto the system using various software. 313

9 Recommendations

The University of Johannesburg should implement e-marking to assess students of 315 accounting. By using e-marking, secrecy and transparency can be maintained. This 316 process first scans examination booklets electronically before splitting electronic 317 copies into components, items and sub-questions (Calero and de Huelva 2011). 318 With the introduction of e-marking, reliability and integrity will be maintained. 319 Impersonation and cheating will be counteracted. Marker error will be reduced to 320 less than 2 %. Students will meet the various challenges and deadlines for university 321 admission. The university will be empowered to improve the practices of teaching 322 and the outcomes of learning. Students can be given various tasks to cover what was 323 discussed in class to build their practical knowledge and perform well in the work-324 ing environment (Calero and de Huelva 2011). 325

The students must become familiar with accounting software so that their theoretical as well as their practical knowledge can be improved. The University of Johannesburg should also familiarise the students with the features of Moodle software, as it will 329

- Provide options for assessing learning materials and assessment scores
- Provide facilities for assignment submission, a discussion forum, grading, file downloading, online calendar, online announcements and news, and online guizzes
- Allow students to assess the results themselves

Moodle's modular construction supports different plug-ins such as resource types, activities, content filters, question types, graphical themes, enrolment methods, authentication methods and types of data.

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AU3	The citations Martinez (2012), Iniesta (2013), Kinyondo (2012) have been changed to Martinez et al. (2012), Iniesta-Bonillo et al. (2013), Kinyondo et al. (2012). Please check if appropriate.	J
AU4	Please check if edit to sentence starting "Seldom focused on" is okay.	
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